

Physics UG CBCS

SL NO.	SUBJECT	COURSE CODE	COURSE TITLE	OBJECTIVE	EXPECTED LEARNER OUTCOMES
1.	Physics (Honours)	PHYSICS-C-I	MATHEMATICAL PHYSICS – I	<ol style="list-style-type: none"> 1. Write a problem in Physics in the language of Mathematics. 2. Identify a range of diverse mathematical techniques to formulate and solve a problem in basic Physics. 3. Analyze some of the basic mathematical concepts and methods. 4. Apply the knowledge and understanding of these mathematical methods to solve problems in a number of elementary branches of Physics like mechanics, electromagnetic theory, statistical Physics, thermal Physics etc. 5. Learn computer programming and numerical analysis and know its role in solving problems in 	<ol style="list-style-type: none"> 1. Develop the requisite mathematical skills of a student to understand the fundamental topics in Physics. 2. Develop the ability of a student to critically analyze a topic. 3. Prepare a student for more advanced topics in Physics by providing a solid grip over the fundamental concepts in Physics. 4. Demonstrate the use and importance of computational methods in Physics and enable a student to construct a Physics problem computationally.

				Physics. 6. Construct a problem in Physics computationally	
		PHYSICS-C-II	MECHANICS	<p>1. Understand the basic concepts and ideas in mechanics- e.g. motion, force and torque, mass and moment of inertia, linear and angular momentum, kinetic energy and potential energy etc. by parallel studies of linear dynamics and rotational dynamics.</p> <p>2. Understand the basic conservation laws by studying them in various mechanical systems including collisions, oscillations, gravitational systems etc.</p> <p>3. Analyze simple harmonic oscillator in detail</p> <p>4. Study planetary motions as a central force problem.</p> <p>5. Understand the concept of frame of reference,</p>	<p>1. Introduce the students to the basic concepts of mechanics.</p> <p>2. Enable the students to understand conservation laws as they are the fundamental laws of nature and will help them in realizing a crucial phenomenon of nature-symmetry.</p> <p>3. Enable the students to understand simple harmonic oscillator as it is a unique mechanical problem and will help them to understand the advanced treatment in quantum mechanics and modern Physics.</p> <p>4. Develop knowledge of special relativity to understand relativistic formulation of modern theories.</p> <p>5. Develop knowledge of mechanics which will help students in their everyday life.</p>

				<p>importance of relative transformations and invariance of laws of Physics.</p> <p>6. Realize the consequences of non-inertial frame in our real physical world.</p> <p>7. Know about the peculiar phenomena of special relativity which are not seen in Newtonian relativity and to understand the concept of space-time.</p>	
		PHYSICS-C-III	ELECTRICITY AND MAGNETISM	<ol style="list-style-type: none"> 1. Gain basic knowledge of electricity and magnetism. 2. Understand the electrical and magnetic properties of matter in brief. 3. Understand the effect of electric field on magnetic field and the effect of magnetic field on current. 4. Understand the basic principle of the electrical circuit (AC) circuit and electrical networking. 5. Acquire the basic theoretical as well as 	<ol style="list-style-type: none"> 1. Develop the basic theoretical knowledge as well as experimental skills of the students on electrical networking. 2. Train the students to handle and repair instruments based on electric and magnetic field effects.

				experimental skill on electrical networking.	
		PHYSICS-C-IV	WAVES AND OPTICS	<ol style="list-style-type: none"> 1. Learn the basics of wave motion. 2. Know about the behaviour of light due to its wave nature. 3. Identify and understand different phenomena due to the interaction of light with light and matter. 4. Analyze some of the fundamental laws and principles of light which is used in many important optical instruments. 	<ol style="list-style-type: none"> 1. Enable the students to analyze different phenomena due to the interaction of light with light and matter. 2. Train the students to use different optical instruments. 3. Help the students to understand various natural phenomena using different apparatus in the laboratory.
		PHYSICS-C-V	MATHEMATICAL PHYSICS – II	<ol style="list-style-type: none"> 1. Write a problem in Physics (slightly more advanced than those in Mathematical Physics I) in the language of Mathematics. 2. Identify a range of diverse mathematical techniques to formulate and solve a problem in basic Physics. 3. Analyze some of the useful mathematical methods. 	<ol style="list-style-type: none"> 1. Develop the requisite mathematical skills to understand some of the fundamental topics (slightly more advanced than those in Mathematical Physics I) in Physics. 2. Develop the ability of a student to critically analyze a topic.

				<p>4. Apply the knowledge and understanding of these mathematical methods to solve problems in a number of fundamental topics in Physics.</p> <p>5. Construct a problem in Physics computationally.</p>	<p>3. Prepare a student for more advanced topics in Physics by providing a solid grip over the fundamental concepts in Physics.</p> <p>4. Enable a student to understand the use and importance of computational / numerical methods in Physics and enable a student to construct a Physics problem computationally.</p>
		PHYSICS-C-VI	THERMAL PHYSICS	<p>1. Develop knowledge on the classical laws of thermodynamics and their application</p> <p>2. Use the knowledge of thermodynamics in various applications in allied fields like Materials science, Condensed matter Physics, Atmospheric Physics, Solar Physics, etc.</p> <p>3. Probe questions in varied fields of Physics, chemistry and biology based on principles of Thermal Physics.</p>	<p>1. Apply the laws of thermodynamics in real world problems.</p> <p>2. Conduct scientific problems and experiments on thermodynamics and allied disciplines.</p> <p>3. Demonstrate a working knowledge of the physical principles in Thermal Physics.</p>

				<p>4. Use the concept of thermodynamics in real world experiences</p> <p>5. Develop critical and analytical thinking of the student on thermodynamics and allied disciplines</p>	
		PHYSICS-C-VII	DIGITAL SYSTEMS AND APPLICATIONS	<p>1. Know about the basic laboratory equipment electronics.</p> <p>2. Understand basic digital electronics concepts and devices.</p> <p>3. Analyze digital circuits.</p>	<p>1. Identify and understand digital electronic principles and systems.</p> <p>2. Apply the knowledge to analyze and apply digital circuits in solving circuit level problems.</p> <p>3. Build real life applications using digital systems.</p>
		PHYSICS-C-VIII	MATHEMATICAL PHYSICS-III	<p>1. Write a problem in Physics (slightly more advanced than those in Mathematical Physics I and II) in the language of mathematics.</p> <p>2. Identify a range of diverse mathematical techniques/ideas to formulate, simplify and solve some problems in Physics.</p>	<p>1. Develop mathematical skills of a student to understand some of the fundamental topics (slightly more advanced than those in Mathematical Physics I and II).</p> <p>2. Develop the ability of a student to critically analyze a topic.</p>

				<p>3. Analyze some of the useful mathematical ideas and techniques.</p> <p>4. Apply the knowledge and understanding of these mathematical methods to solve problems in a number of fundamental topics in Physics.</p> <p>5. Construct a problem in Physics computationally and use simulations to design an experiment.</p>	<p>3. Prepare a student for more advanced topics in Physics by providing a solid grip over the fundamental concepts in Physics.</p> <p>4. Enable a student to understand the use and importance of computational/ numerical methods in Physics and to construct a problem computationally.</p> <p>5. Help a student to pursue advanced studies in Physics.</p>
		PHYSICS-C-IX	ELEMENTS OF MODERN PHYSICS	<p>1. Understand the theoretical basis for the understanding of quantum Physics as the basis for dealing with microscopic phenomena.</p> <p>2. Apply concepts of 20th Century Modern Physics to deduce the structure of atoms.</p> <p>3. Explain the wave-particle duality of the photon.</p> <p>4. Analyze the structure of matter at its most fundamental.</p>	<p>1. Understand and appreciate the theory of modern physics</p> <p>2. Develop the ability to apply it in solving simple problems in Quantum Mechanics (QM), structure of atoms, Laser, and Nuclear Physics.</p>

				5. Develop insight into the key principles and applications of Nuclear Physics	
		PHYSICS-C-X	ANALOG SYSTEMS AND APPLICATIONS	<p>1. Know about the basics of semiconductor PN junction, its various types and its application to different electronic circuits.</p> <p>2. Understand bipolar junction transistor and its applications as amplifier and oscillators.</p> <p>3. Familiarize with operational amplifiers, its applications and analysis.</p> <p>4. Develop knowledge about analog to digital and digital to analog conversion techniques</p>	<p><input type="checkbox"/> <input type="checkbox"/> Learn the foundation knowledge of analog electronic systems.</p> <p>2. Learn the working and applications of PN junction and bipolar junction transistors (BJT).</p> <p>3. Learn to analyze circuits containing PN junction and BJT along with the application of BJT as amplifiers and oscillators.</p> <p>4. Develop basic knowledge of operational amplifier and its applications</p>

		PHYSICS-C-XI	QUANTUM MECHANICS AND APPLICATIONS	<p>1. Know about the development of modern Physics and the theoretical formulation of quantum mechanics.</p> <p>2. Know the applications of quantum mechanics in solving physical problems.</p>	<p>1. Learn how to apply quantum mechanics to solve physical systems in different areas of science.</p> <p>2. Know about the physical behavior of materials.</p> <p>3. Learn how the scientific behavior of materials can be used for human applications.</p>
		PHYSICS-C-XII	SOLID STATE PHYSICS	<p>1. Familiarize with fundamentals of Solid State Physics.</p> <p>2. Know about the structural, electronic and lattice vibration dependent behaviour of solids.</p> <p>3. Learn the basic concepts in hands on mode through laboratory experiments associated with the course.</p>	<p>1. Equip a student with basic concepts of solid state Physics so that the knowledge can be applied for further development of the subject.</p> <p>2. Enable a student to work in both theoretical and experimental aspects of solid state Physics.</p> <p>3. Help the students in thorough learning of the concepts associated to the course through the laboratory experiments.</p>

		PHYSICS-C-XIII	ELECTROMAGNETIC THEORY	<p>1. Understand the physical and mathematical principles to provide in-depth analysis of the behavior of electricity and magnetism in matter.</p> <p>2. Apply Maxwell's equations to explain the properties of the electromagnetic wave and its interaction with matter.</p> <p>3. Analyze the principles and processes related to polarization, interference, and diffraction along with their applications to the development of wave-guide and optical fibers.</p>	<p>1. Solve problems relevant to interfaces between media with defined boundary conditions.</p> <p>2. Use Maxwell's equations to describe the behaviour of electromagnetic waves in vacuum as well as medium.</p> <p>3. Describe states and methods of polarization and analyze the polarization state of a light source.</p>
		PHYSICS-C-XIV	STATISTICAL MECHANICS	<p>1. Introduce the basic concepts of Statistical Mechanics so that students will be able to cope-up with higher level of such course in future.</p> <p>2. Develop the critically thinking ability of students to understand the diverse physical phenomena.</p> <p>3. Develop the interest and ability among students to solved challenging physical</p>	<p>1. Equip the students with basic knowledge of the Statistical Mechanics and hence will be able to look critically for analyzing any physical phenomena.</p> <p>2. Create interest to the subject to pursue further higher study in future.</p> <p>3. Enable the students to solve any challenging physical problem in statistical mechanics</p>

				problems by the application of techniques of Statistical Mechanics in future.	
		PHYSICS DSE -I	CLASSICAL DYNAMICS	<p>1. Understand the underlying facts in the development of classical mechanics and the advantages of its formulation over Newtonian mechanics.</p> <p>2. Describe mechanics of a system in terms of equation of motion.</p> <p>3. Understand Lagrangian formulation and Hamiltonian formulation of mechanics and their applications in mechanical problems.</p> <p>4. Study the theoretical analysis of systems oscillating with small amplitudes.</p> <p>5. Observe the peculiar phenomena when transformed from Newtonian relativity to special relativity and to understand the concept of space-time.</p>	<p>1. Prepare for the study of modern Physics.</p> <p>2. Develop basic theoretical ingredients necessary to study advanced theoretical courses like quantum mechanics.</p> <p>3. Learn a number of mathematical techniques applicable to Physics problems in different areas.</p> <p>4. Develop knowledge of special relativity which is essential to understand the relativistic formulation of modern theories.</p>
		PHYSICS DSE -2	PHYSICS OF DEVICES AND INSTRUMENTS	1. Know about various devices like UJT, FET, MOSFET, CMOS etc. and its	1. Develop knowledge about various devices like UJT, FET etc. and to use these

			<p>application to different electronic circuits.</p> <p>2. Design rectifiers, passive and active filters, multivibrators etc.</p> <p>3. Familiarize with the IC fabrication techniques.</p> <p>4. Learn about digital data communication standards and also about communication systems.</p>	<p>devices for different applications.</p> <p>2. Design and analyse filter circuits, power supply FET amplifiers etc.</p> <p>3. Develop the basic knowledge of IC fabrications, data communication standards and communication systems.</p>
			<p>ASTRONOMY AND ASTROPHYSICS</p> <p>1. Introduce the fundamental concepts of Astrophysics to the interested students.</p> <p>2. Motivate students to pursue the further study in future in these challenging, fascinating and important fields of Physics.</p>	<p>1. Equip the students with basic knowledge of the Astrophysics.</p> <p>2. Create interest to the subjects of Astrophysics and to pursue further higher studies in the subject concerned in future.</p> <p>3. Develop the critically analyzing ability, which may motivate the students to solve any challenging physical problem in future.</p>

			<p>PHYSICS OF EARTH</p>	<ol style="list-style-type: none"> 1. Acquire knowledge on origin and evolution of the Earth and Universe 2. Acquire knowledge on structure, composition and dynamics of the Earth from crust up to space. 3. Understand the interaction among different components of the Earth. 4. Get familiar with the weather and climate systems, climate change. 5. Increase people awareness of the scientific process of the Earth and its role in the exploration of the Universe. 	<ol style="list-style-type: none"> 1. Develop critical and quantitative thinking of scientific issues related to the study of cosmology and Earth Sciences. 2. Understand the basic principles of various processes of the Earth. 3. Apply the acquired knowledge on the study of the Universe 4. Pursue career in Earth Sciences, Cosmology etc. 5. Understand the contemporary dilemmas on Earth and Environmental issues like climate change, air pollution, deforestation etc.
		<p>PHYSICS DSE -3</p>	<p>NUCLEAR AND PARTICLE PHYSICS</p>	<ol style="list-style-type: none"> 1. Understand various concepts in Nuclear Physics. 2. Emphasize on the existing connections with other domains of Physics, in particular Quantum Mechanics, Mathematical Physics and Particle Physics. 	<ol style="list-style-type: none"> 1. Develop knowledge regarding nuclear and elementary particle as well as properties and phenomena related to them. 2. Successfully apply the same knowledge in solving problems in the field of nuclear and particle Physics.

		PHYSICS DSE -4	NANO MATERIALS AND APPLICATION	<p>1. Provide a systematic coverage and insight into the promising area of nano materials in order to facilitate the understanding of the nature and prospects for the field.</p> <p>2. Provide information about various synthesis and characterization techniques of nano materials.</p> <p>3. Discuss optical and electronic transport properties of nano materials.</p> <p>4. Discuss applications of nano materials.</p>	<p>1. Gather sufficient knowledge about the fascinating behaviour of nanomaterials and tuning of such properties for different applications.</p> <p>2. Obtain information on experimental methodologies with necessary theoretical background, which may be useful for pursuing further study on the areas of nanoscience and technology.</p>
			EXPERIMENTAL TECHNIQUES	<p>1. Enhance experimental knowledge.</p> <p>2. Develop the theoretical as well as experimental knowledge of different instruments and instrumentation.</p>	<p>1. Develop the theoretical as well as experimental knowledge on different instruments and instrumentation.</p> <p>2. Develop the knowledge of some measurement techniques and data and</p>

				3. Enhance the knowledge of some measurement techniques and data and error analysis technique.	error analysis technique, which is very essential for a Physics student. 3. Handle different electrical network based instruments.
		AEEC-1	ELECTRICAL CIRCUITS AND NETWORK SKILLS	1. Design and trouble shoot the electrical circuits, networks and appliances through hands on mode. 2. Build the basic foundation for learning electrical wirings and repairing of other house hold equipments.	1. Design and troubleshoot certain electrical circuits and domestic appliances along with the understanding of the working of those appliances. 2. Do electrical wiring and repairing. This knowledge will develop the skill of the students for various electrical repairing and servicing purposes.
		AEEC-2	APPLIED OPTICS	1. Learn about various optical devices, components and systems. 2. Familiarize with experiments related to optoelectronic devices. 3. Learn about Fourier transform spectroscopy, holography and various aspects of fibre optics.	1. Acquire knowledge about various optoelectronic devices and their applications. 2. Understand the basics of Laser and their uses. 3. Understand about Fourier transform spectroscopy and will learn to use this technique for various purposes.

					4. Learn the use of optical fibres and related informations.
2.	Generic elective	PHYSICS-GE-1	MECHANICS	<p>1. Understand the basics of vector algebra and the techniques of solving ordinary differential equations.</p> <p>2. Understand the basic components of mechanics- e.g. motion, force and torque, mass and moment of inertia, linear and angular momenta, kinetic energy and potential energy etc. and the conservation theorems.</p> <p>3. Study the mechanics of gravitational systems and simple harmonic motion.</p> <p>4. Study the elastic behaviour of materials.</p> <p>5. Realize the idea of frame of reference and its implications in the study of special relativity.</p>	<p>1. Develop basic knowledge of mechanics as it is helpful to study any other course in science discipline.</p> <p>2. Develop knowledge of vector algebra and differential equations which will help students in the study of theoretical courses in science.</p> <p>3. Acquire useful knowledge about material science.</p> <p>4. Explain the abstract idea of 4-dimensional world to students which are not from physics discipline.</p>
		PHYSICS-GE-2	ELECTRICITY AND MAGNETISM	1. Understand basic knowledge of electricity and magnetism.	1. Perform quantitative analyses of basic problems

				<p>2. Understand basic knowledge of electrical and magnetic properties of matter in brief.</p> <p>3. Understand the basic knowledge of the effect of electric field on magnetic field and the effect of magnetic field on current.</p> <p>4. Understand the basic principle of the electrical circuit (AC) circuit and electrical networking.</p> <p>5. Develop the basic theoretical as well as experimental skill on electrical networking.</p>	<p>in Electrostatics and Magnetodynamics.</p> <p>2. Apply Gauss's Law, Ampere's Law, and Biot-Savart Law to solving practical problems in electricity and magnetism.</p> <p>3. Apply the fundamental laws of electromagnetism to solve problems of electrostatics, magnetostatics, and electromagnetic induction</p> <p>4. Explain and analyze the behaviour of alternating currents in LCR circuits.</p> <p>5. Perform and interpret the results of simple experiments and demonstrations of physical principles.</p> <p>6. Solve problems relevant to interfaces between media with defined boundary conditions.</p>
		PHYSICS-GE-3	THERMAL PHYSICS AND STATISTICAL MECHANICS	1. Develop the working knowledge of the laws and methods of thermodynamics	1. Apply laws of thermodynamics and statistical mechanics to a

				<p>and elementary statistical mechanics.</p> <p>2. Provide insight to the postulates of Statistical Mechanics and statistical interpretation of thermodynamics</p> <p>3. Understand the laws of radiation and acquire knowledge for their applications in various disciplines in Physics, Chemistry, Biology, Earth and Atmospheric Sciences.</p> <p>4. Develop application oriented knowledge on laws of statistical mechanics in selected problems</p> <p>5. Use the methodologies, conventions and tools of thermal and statistical physics to test and communicate ideas and explanation</p>	<p>range of situations in real world problems.</p> <p>2. Conduct scientific problems and experiments on thermodynamics and allied disciplines .</p> <p>3. Demonstrate a working knowledge of the physical principles describing the thermal physics..</p> <p>4. Explain thermal physics as logical consequences of the postulates of statistical mechanics</p>
		PHYSICS-GE-4	WAVES AND OPTICS	<p>1. Learn the basic ideas of the behaviour of light based on its wave nature.</p>	<p>1. Justify different phenomena due to light and the interaction of light among them and with matter.</p>

				<p>2. Develop the knowledge of the different phenomena due to the interaction of light among them and with mater.</p> <p>3. Learn about some fundamental principles of light which is used in different optical instrument which very essential for Physics student.</p>	<p>2. Use different optical instruments.</p> <p>3. Produce different natural phenomena using different apparatus in the laboratory</p>
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Chemistry UG CBCS

SL NO.	SUBJECT	COURSE CODE	COURSE TITLE	OBJECTIVE	EXPECTED LEARNER OUTCOMES
1.	Chemistry (Honours)	CHEMISTRY-C-101	INORGANIC CHEMISTRY-101	To develop the basic knowledge of chemistry in relation to atomic structure, bonding, periodicity etc.	<p>Students will gain an understanding of</p> <p>1. Sign of wave function, counter boundary and probability diagrams etc.</p> <p>2. Variations of orbital energy with atomic number.</p> <p>3. Properties of elements, atomic radii, ionic radii, size effect of ionic bond, solvation energy, covalent</p>

					character of ionic bond, redox equations, principle involved in volumetric analysis etc.
		CHEMISTRY-C-102	PHYSICAL CHEMISTRY-102	To emphasize on different states of matter & their mechanical treatment.	Students will gain an understanding of 1. Kinetic molecular model of a gas, behaviour of real gases etc. 2. Effect of addition of various solute on surface tension and viscosity. Cleansing action of detergents. 3. Nature of solid state, elementary idea of symmetry. 4. Idea of solubility and solubility product of sparingly soluble salts.
		CHEMISTRY-C-201	ORGANIC CHEMISTRY-201	To develop preliminary knowledge in basic organic chemistry, Hydrocarbons, stereochemistry & conformational analysis.	Students will gain an understanding of 1. Knowledge of basic organic chemistry, definition, classification of stereoisomerism, optical activity, absolute and relative configuration etc. 2. Knowledge of elimination reaction, electrophilic and nucleophilic addition.

					3. Relative stability of cyclic hydrocarbon, Bayer's strain theory etc.
		CHEMISTRY-C-202	PHYSICAL CHEMISTRY-202	To develop a strong knowledge on chemical thermodynamics, their mathematical expression & application.	<p>Students will gain an understanding of</p> <ol style="list-style-type: none"> 1. The application of mathematical tools to calculate thermodynamic properties. 2. The concept of free energy change and spontaneity. 3. Thermodynamics derivation of relation between Gibbs free energy of reaction and reaction quotient. 4. Derive relation between the four colligative properties using chemical potential (Thermodynamics derivation).
		CHEMISTRY-C-301	INORGANIC CHEMISTRY-301	To make the student familiar with the chemistry of s, p block elements, noble gases, inorganic polymers & metallurgy.	<p>Students will gain an understanding of</p> <ol style="list-style-type: none"> 1. Predict the purification of metal, study of compounds with emphasis on structure,

					<p>bonding, preparation and properties.</p> <p>2. Real world applications, shapes etc of noble gas.</p> <p>3. Structural aspects and applications of inorganic polymer.</p>
		CHEMISTRY-C-302	ORGANIC CHEMISTRY-302	To develop preliminary knowledge on the synthesis, properties of organic compounds of Halogen & oxygen containing Functional groups.	<p>Students will gain an understanding of</p> <p>1. The prediction of mechanism for organic reactions.</p> <p>2. How to design synthesis of organic molecule.</p> <p>3. The reactivity and stability of organic molecule based on structure</p> <p>4. An idea of alcohols, phenols, carbonyl compounds, acids and their derivatives etc.</p>
		CHEMISTRY-C-303	PHYSICAL CHEMISTRY-303	To acquaint students in details on phase equilibria, chemical kinetics, catalysis and surface chemistry.	<p>Students will gain an understanding of</p> <p>1. Types of catalysis, Michaelis – Menten mechanism, mechanism of</p>

					<p>catalysed reaction at solid state.</p> <p>2. Steady - state approximation in reaction mechanism.</p> <p>3. Concept of phases, phase diagrams for systems of solid- liquid equilibria involving eutectic, congruent and incongruent mp, solid solution etc.</p>
		CHEMISTRY-C-401	INORGANIC CHEMISTRY-401	To develop a vivid knowledge on coordination chemistry and its application extended to biological system.	<p>Students will gain an understanding of</p> <p>1. Predicting metal ion present in biological systems.</p> <p>2. Use of chelating agents in medicine.</p> <p>3. Quantitative aspect of ligand field and MO theory, stability of various oxidation states and emf of transition elements.</p>
		CHEMISTRY-C-402	ORGANIC CHEMISTRY-402	To develop the knowledge on the preparation and properties of different classes nitrogen containing compounds. Emphasis is given to heterocyclic compounds of	<p>Students will gain an understanding of</p> <p>1. Reaction for preparation of Heterocyclic compounds, polynuclear hydrocarbons.</p>

				both synthetic and natural origin.	<ol style="list-style-type: none"> 2. Reaction and mechanism of substitution in heterocyclic compounds. 3. Methods of structure elucidation of terpenoids.
		CHEMISTRY-C-403	PHYSICAL CHEMISTRY-403	To develop the basic knowledge on electrochemistry, various laws governing electrochemical process and their application.	<p>Students will gain an understanding of</p> <ol style="list-style-type: none"> 1. Quantitative aspects of Faraday's laws of electrolysis. 2. Application of conductance measurement. 3. Electrical and magnetic properties of atoms and molecules.
		CHEMISTRY-C-501	ORGANIC CHEMISTRY-501	To acquire knowledge in organic synthesis, retro synthesis, and to understand biochemistry.	<p>Students will gain an understanding of</p> <ol style="list-style-type: none"> 1. The chemical basis for biological phenomena and cellular structure. 2. The chemical properties of amino acids co factors and sugar. 3. Enzyme kinetics, chemical logic of metabolism. 4. Health, disease and modern medicine are all

					rooted in biological chemistry.
		CHEMISTRY-C-502	PHYSICAL CHEMISTRY-502	To make the students familiar with the various aspects of photo chemistry and quantum chemistry.	<p>Students will gain an understanding of</p> <ol style="list-style-type: none"> 1. The difference between classical and quantum mechanics. 2. Qualitative treatment of hydrogen atom and hydrogen like ions. 3. How to interpret spectra. 4. Role of photochemical reaction in biochemical processes.
		CHEMISTRY-C-601	INORGANIC CHEMISTRY-601	To make familiar with various aspects of knowledge on organometalic chemistry, its application and Inorganic Reaction Mechanism.	<p>Students will gain an understanding of</p> <ol style="list-style-type: none"> 1. Basic principles involved in analysis of anions, cations solubility product , common ion effect etc. 2. Inorganic reaction mechanism. 3. Use of Wilkinson's catalyst in industrial process of hydrozenation of alkene,

					<p>gas synthesis by metal carbonyl.</p> <p>4. Capacity of organic ligands, 18 electron rule, Zeise's salt etc.</p>
		CHEMISTRY-C-602	ORGANIC CHEMISTRY-602	To acquaint students on application of Spectroscopy (UV – visible, IR and NMR), carbohydrates, dyes and polymers.	<p>Students will gain an understanding of</p> <ol style="list-style-type: none"> 1. Application of UV, IR, NMR spectroscopy, mass spectra in organic molecules. 2. Biological importance of carbohydrates. 3. Biodegradable polymer, colour and constitution of dyes and applications of different dyes.
		CHEMISTRY-DSE-501	ANALYTICAL METHODS IN CHEMISTRY	To develop a strong knowledge on spectroscopy, qualitative and quantitative aspects of analysis and thermal analysis.	<p>Students will gain an understanding of</p> <ol style="list-style-type: none"> 1. The principles and applications of modern chemical instrumentation, experimental design and data analysis. 2. The composition of written laboratory reports that summarize experimental procedures and the accurately present and interpret data.

					3. Qualitative and quantitative aspect of solvent extraction, chromatographic method of analysis -TLC & HPLC.
		CHEMISTRY-DSE-502	GREEN CHEMISTRY	To develop the basis knowledge of green chemistry and its future trends.	Students will gain an understanding of 1. Concept of green chemistry. 2. Use of safer chemicals. 3. Concept of atom economy. 4. Use of green solvent. 5. Use of green chemistry in our day to day life.
		CHEMISTRY-DSE-601	INORGANIC MATERIALS OF INDUSTRIAL IMPORTANCE	To learn about fertilizers, surface coating, silicate industries, batteries etc.	Students will gain an understanding of 1. Properties and the types of different glasses, ceramics and cements. 2. Different types and manufacture of fertilizers, composition of paint pigments. 3. Working principle of different batteries, elements present in alloys, different types of steel etc.
		CHEMISTRY-DSE-603	DISSERTATION	To develop the written and verbal communication. To present information in a clear and effective manner, to write	Students will gain an understanding of 1. Communication effectively, verbally and written for the purpose of

				report in a scientific style and to solve scientific problems.	conveying chemical information to both professional scientist and to the public. 2. Availability of instrument for conducting specific, scientific research.
		AEEC-1			
		AEEC-2			
2.	Generic elective	CHEMISTRY-GE-101	ATOMIC STRUCTURE, BONDING, GENERAL ORGANIC CHEMISTRY AND ALIPHATIC HYDROCARBONS		
		CHEMISTRY-GE-201	CHEMICAL ENERGETICS, EQUILIBRIA AND FUNCTIONAL ORGANIC CHEMISTRY		
		CHEMISTRY-GE-301	SOLUTIONS, PHASE EQUILIBRIUM, CONDUCTANCE, ELECTROCHEMISTRY AND FUNCTIONAL GROUP ORGANIC CHEMISTRY-II		

		CHEMISTRY-GE-401	TRANSITION METALS, COORDINATION CHEMISTRY, STATES OF MATTER AND CHEMICAL KINETICS		
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Electronics UG CBCS

SL NO.	SUBJECT	COURSE CODE	COURSE TITLE	OBJECTIVE	EXPECTED LEARNER OUTCOMES
1.	Electronics BSc. Honours	ELECTRONICS-C-1	BASIC CIRCUIT THEORY AND NETWORK ANALYSIS	1. Understand the basic circuit concepts and devices like resistors, capacitors and inductors. 2. Perform AC and DC circuit analysis. 3. Work with different theorems of network analysis.	1. Acquire the foundation knowledge about voltage, current and passive devices. 2. Analyse AC and DC circuits using available techniques. 3. Analyse different types of networks using the standard network theorem.
		ELECTRONICS-C-2	MATHEMATICS FOUNDATION FOR ELECTRONICS	1. Acquire the mathematical skills and learn the techniques that are necessary to embark on the field of electronics.	1. Apply concepts to do mathematical modelling and analysis of numerical methods. 2. Develop their knowledge and skills for electronics,

				<p>2. Identify, formulate and solve complex problems in mathematics.</p> <p>3. Gain the mathematical foundation, including differentiation and integration, multi-variable calculus, linear algebra, differential equations, complex variables, probability and statistics etc. which will help in the study of the broad subject electronics in a much convenient way</p> <p>4. Apply this knowledge towards modelling and solution of problems in electronics with the help of advanced mathematics that this course provides.</p>	<p>through a specialist pathway.</p> <p>3. Perform independent research to help define the frontiers of knowledge in electronics or related interdisciplinary areas.</p>
		ELECTRONI CS-C-3	SEMICONDUCTOR DEVICES	<p>1. Learn the fundamental physics of the semiconductor materials and devices.</p> <p>2. Identify and characterize the semiconductor devices.</p>	<p>1. Understand the basic principles and working of the semiconductor materials and devices.</p> <p>2. Characterize the device.</p>

				3. Apply the semiconductor devices in various circuits.	3. Apply the knowledge of semiconductor devices in real life application.
		ELECTRONI CS-C- IV	APPLIED PHYSICS	<p>1. Learn about the development of modern physics and the theoretical formation of quantum mechanics.</p> <p>2. Learn about the applications of quantum mechanics in solving physical problems.</p> <p>3. Learn about the physics of material science by studying mechanical properties, thermal properties, elastic and magnetic properties of materials.</p>	<p>1. Apply quantum mechanics to solve physical systems in different areas of science.</p> <p>2. Know about the physical behaviour of materials.</p> <p>3. Learn how the scientific behaviours of materials can be used for human applications.</p>
		ELECTRONI CS-C-V	ELECTRONICS CIRCUITS	<p>1. Understand the various uses and applications of diodes and bipolar junction transistors.</p> <p>2. Utilise the necessary skill needed to analyse electronic circuits.</p> <p>3. Comprehend the designing and study of different types of amplifiers.</p>	<p>1. Acquire the basic knowledge about the use and application of diode and transistor circuits.</p> <p>2. Design and analyse circuits containing diodes and transistors.</p> <p>3. Learn the designing of transistor amplifiers and identify various types of amplifiers.</p>

					4. Develop the knowledge about oscillators and FETs
		ELECTRONICS C-VI	DIGITAL ELECTRONICS AND VERILOG/VHDL	<p>1. Understand the binary and other number systems and Boolean algebra.</p> <p>2. Comprehend the digital principles and devices like logic gates.</p> <p>3. Understand the hardware programming language like Verilog/VHDL.</p>	<p>1. Identify the digital logic devices and their working principles.</p> <p>2. Write hardware level program in Verilog and VHDL for designing digital circuits.</p> <p>3. Apply the knowledge to critically assess the pros and cons of various hardware design methodologies.</p>
		ELECTRONICS C-VII	C PROGRAMMING AND DATA STRUCTURES	<p>1. Understand high level programming language through C/C++ programming.</p> <p>2. Learn various sequential and object oriented programming paradigm.</p>	<p>1. Write C/C++ programs for various mathematical and data processing tasks</p> <p>2. Apply the knowledge of high level programming language to solving various scientific and real life problems using numerical methods</p> <p>3. Critically assess the applicability of numerical methods and high level language for solving human civilization problems.</p>

	ELECTRONI CS-C-VIII	OPERATIONAL AMPLIFIERS AND APPLICATIONS	<p>1. Understand the fundamentals of LSI circuit device Operational Amplifier (OP-AMP).</p> <p>2. To develop analytic and synthesis skills in circuits using OP-AMPS.</p>	<p>1. Understand working of the OP-AMP.</p> <p>2. Characterize various OP-AMP ICs and circuits.</p> <p>3. Apply the knowledge to use the OP-AMP in scientific and real life applications.</p>
	ELECTRONI CS-C-IX	SIGNALS AND SYSTEMS	<p>1. Understand the basic mathematical representation of electronic signals and systems</p> <p>2. Comprehend the various mathematical tools and techniques for analyzing different types of signals and systems</p>	<p>1. Identify different signal types and understand the formalism of treating signals and systems in mathematical domain.</p> <p>2. Apply the mathematical tools to represent signals and analyze time domain and Frequency domain signals and systems like LTI.</p>
	ELECTRONI CS-C-X	ELECTRONIC INSTRUMENTATION	<p>1. Understand the various measurement instruments and the measurement techniques involved.</p> <p>2. Handle different instruments like power supply, Oscilloscope etc.</p>	<p>1. Use and apply various measurement instruments.</p> <p>2. Measure resistance, capacitance, and temperature using available bridge methods.</p> <p>3. To design circuits for systems like power supply</p>

				3. Develop the knowledge about transducers and sensors.	and sample and hold circuits etc. 4. Acquire theoretical and practical knowledge about various sensors.
		ELECTRONI CS-C-XI	MICRO PROCESSOR AND MICROCONTROLLER	1. Microprocessors and microcontroller. 2. Assembly language programming of microprocessors and microcontroller.	1. Understand architecture and programming model of microprocessors 8085 and microcontroller 8051 2. Apply the assembly language programming knowledge to build various small systems based on microprocessors 8085 and microcontroller 8051. 3. Asses the applicability of microprocessors and microcontroller for solving various real life problems
		ELECTRONI CS-C-XII	ELECTROMAGNETICS	1. Understand the physical and mathematical principles of the behaviour of electricity and magnetism in matter. 2. Comprehend the properties of the electromagnetic wave and its interaction with matter with the help of Maxwell's equations.	1. Solve problems relevant to interfaces between media with defined boundary conditions. 2. Use Maxwell's equations to describe the behaviour of electromagnetic waves in vacuum as well as medium.

				3. Understand the principles and processes related to polarization, interference, and diffraction along with their applications to the development of wave-guide and optical fibres.	3. Describe states and methods of polarization and analyze the polarization state of a light source
		ELECTRONI CS-C-XIII	COMMUNICATION ELECTRONICS	1. Understand the basic techniques of electronic communication like modulation. 2. Apply the knowledge to understand the current generation communication technologies.	1. Identify the basic techniques of communication like carrier modulation/demodulation. 2. Analyze the modulations schemes and their applicability. 3. Analyze present generation systems.
		ELECTRONI CS-C-XIV	PHOTONICS	1. Understand the fundamental of optics and optical devices. 2. Identify and apply optical principles in various applications.	1. Identify various optical devices and principles 2. Characterize the optical devices 3. Apply the knowledge to use optical devices in scientific and real life applications 4. Critically analyze the advantage/disadvantages of

					optical systems and its applicability.
		ELECTRONI CS-DSE -I	POWER ELECTRONICS	<p>1. Understand the various devices used in power electronics and develop the knowledge to deal with these devices.</p> <p>2. Realize and work with circuits like, inverter and chopper along with the knowledge of elctro-mechnaical machines.</p>	<p>1. Acquire the knowledge about various types of power devices and their uses.</p> <p>2. Understand the behaviour of these devices and will be able to use them wherever necessary.</p>
		ELECTRONI CS-DSE -2	MODERN COMMUNICATION SYSTEMS	<p>1. Learn about different types of new generation communication systems and technologies.</p> <p>2. Familiarize with the knowledge of optical communication, cellular communication, satellite communication and LAN</p>	<p>1. Understand the various techniques and methods used in modern day communication systems.</p> <p>2. Understand the technology behind different types of communication being used around us.</p>
		ELECTRONI CS-DSE-3	NANOELECTRONICS	<p>1. The world of nanoscience and nanotechnology.</p> <p>2. The various preparation and characterization techniques of nanomaterials.</p> <p>3. The optical and electronic transport properties of nanomaterials and their applications.</p>	<p>1. Understand the importance of nanoscience and nanotechnology in our daily lives.</p> <p>2. Learn about various experimental methodologies with necessary theoretical background, which may be useful for pursuing further</p>

					studies on the area of nanoscience and technology.
		ELECTRONI CS-DSE 4	TRANSMISSION LINES, ANTENNA AND WAVE PROPAGATION	<ol style="list-style-type: none"> 1. Learn the basics of electromagnetic wave propagation. 2. Learn about transmission lines and waveguides. 3. Develop the knowledge of radiation of electromagnetic waves and types of antenna. 	<ol style="list-style-type: none"> 1. Understand the propagation of electromagnetic waves and how the electromagnetic wave can be effectively transmitted through transmission lines or waveguides. 2. Comprehend the radiation of electromagnetic waves and the types of antenna 3. Use mathematical simulation software like Scilab, MATLAB etc and to use them to calculate various parameters related to electromagnetic wave propagation, transmission lines, waveguides and antenna.
		ELECTRONI CS-SEC-1	DESIGN AND FABRICATION OF PRINTED CIRCUIT BOARDS	<ol style="list-style-type: none"> 1. Understand the fundamentals of printed circuit boards and its classification. 2. Develop the knowledge about designing and fabrication of printed circuit boards. 	<ol style="list-style-type: none"> 1. Learn the fundamental principles in Robotics. 2. Learn robot programming and configuring environments. 3. Understand various Robotic applications.

		ELECTRONICS-SEC-2	ELECTRONICS-SEC-2	<ol style="list-style-type: none"> 1. Learn the fundamental principles in Robotics. 2. Learn robot programming and configuring environments. 3. Understand various Robotic applications. 	<ol style="list-style-type: none"> 1. Identify the and understand working principles of Robotics 2. Install and run Robot programming 3. Apply the knowledge to using Robots for real life situations
2.	GENERIC ELECTIVE COURSES	ELECTRONICS-GE-1	ELECTRONIC CIRCUITS AND PCB DESIGNING	<ol style="list-style-type: none"> 1. Learn various uses and applications of diodes and bipolar junction transistors. 2. Acquire the necessary skill to analyse electronic circuits. 3. Learn about designing and study of small signal amplifiers. 4. Understand the fundamentals of printed circuit boards and its classification. 5. Develop the knowledge about designing and fabrication of printed circuit boards. 6. Learn etching and soldering process. 	<ol style="list-style-type: none"> 1. Acquire the basic knowledge about the use and application of diode and transistor circuits. 2. Design and analyse circuits containing diodes and transistors. 3. Learn the designing of transistor amplifiers and identify various types of amplifiers. 4. Develop the knowledge about printed circuit boards in electronic applications and will learn the techniques and processes involved in the design and fabrication of printed circuit boards.
		ELECTRONICS-GE-2	DIGITAL SYSTEM DESIGN	<ol style="list-style-type: none"> 1. Learn about the digital principles like number systems and Boolean algebra 	<ol style="list-style-type: none"> 1. Identify and understand digital electronics principles and systems.

				2. Apply the digital electronic principles in circuit analysis and synthesis.	2. Apply the knowledge to build small electronic systems using digital ICs and techniques.
		ELECTRONIC CS-GE-3	INSTRUMENTATION	<p>1. Learn about the various measurement instruments and the measurement techniques involved.</p> <p>2. Handle different instruments like signal generators and Oscilloscope.</p> <p>3. Develop the knowledge of the students about transducers of different types.</p> <p>4. Learn about data acquisition systems.</p> <p>5. Gain theoretical and practical knowledge about various instruments used in the field of biological sciences and medical science.</p>	<p>1. Acquire the necessary knowledge to use different measuring instruments for measurements of voltage, currents and resistances.</p> <p>2. Acquire the knowledge to handle and use oscilloscope, DSO and pulse generators.</p> <p>3. Equip themselves with the theoretical and practical knowledge about various types of transducers.</p> <p>4. Learn about the various sections of a data acquisition system (DAQ) and the function of DAQ in general.</p> <p>5. Learn about some very important instruments used in the field of biological and medical science.</p>
		ELECTRONIC CS- GE-4	COMMUNICATION SYSTEMS	1. Learn the basics of electronic communication systems and the significance of noise in communication.	<p>1. Learn some of the most fundamental techniques used in communication.</p> <p>2. Understand the various aspects of a communication system.</p>

				<p>2. Understand the various types of modulation schemes both theory and practical.</p> <p>3. Learn about various digital modulation techniques and some associated concepts.</p> <p>4. Study various types of multiple accessing techniques.</p> <p>5. Understand cellular communication and satellite communications.</p>	<p>3. Recognise the different available modulation techniques along with the practical knowledge about the technology behind the schemes.</p> <p>4. Equip themselves with the knowledge to understand analog and digital modulation techniques.</p> <p>5. Learn about different aspects of cellular communication and satellite communication systems.</p>
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Commerce UG CBCS

SL NO.	SUBJECT	COURSE CODE	COURSE TITLE	OBJECTIVE	EXPECTED LEARNER OUTCOMES
1.	B.Com. Honours	C-102	BUSINESS LAW	<p>1. To impart basic knowledge of the important business legislation along with relevant case law.</p> <p>2. To make students understand different concepts and provisions of business legislations.</p>	<p>1. Students will be able to learn basic concepts of business law.</p> <p>2. Students will be able to understand practical implications of the provisions of business law.</p> <p>3. Students will be able to</p>

					critically analyze different provisions of business law.
		C-103	FINANCIAL ACCOUNTING	<ol style="list-style-type: none"> 1. To give students a basic understanding of major financial accounting concepts and their applications. 2. To assist students in understanding different financial accounting principles and provisions. 	<ol style="list-style-type: none"> 1. Students will be able to learn basic concepts of Financial Accounting. 2. Students will be able to understand practical solution of financial Accounting. 3. Students would be able to critically evaluate various practical Financial accounting solution.
		C-204	CORPORATE LAW	<ol style="list-style-type: none"> 1. To impart basic knowledge of the provisions of the Companies Act 2013 and the depositories Act, 1996. 2. To discuss cases involving issues in corporate laws 	<ol style="list-style-type: none"> 1. Students will be able to understand basic concepts of corporate law. 2. Students will be understand different provisions related to corporate law. 3. Students will be able to critically analyse the provisions of corporate law. 4. Students will be able apply the provisions in real life.
		C-203	CORPORATE ACCOUNTING	To help the students to acquire the conceptual knowledge of the corporate accounting and to learn the techniques of preparing financial statements.	<ol style="list-style-type: none"> 1. Students will be able to learn about the journal entries of issue of shares and issue of debentures. 2. Students will be able to know about the meaning

					<p>of companies and working style of companies.</p> <p>3. Students will be able know about the final accounts of the companies.</p> <p>4. The students will be able to understand the valuation method of shares and goodwill and measurement of performance of companies.</p> <p>5. The students will be able to learn about amalgamation of companies</p> <p>The students will be able to prepare accounts for holding and its subsidiary companies</p>
		C-305	HUMAN RESOURCE MANAGEMENT	<p>1. To acquaint students with the techniques and principles to manage human resource of an organization.</p> <p>2. To give students practical understanding the core concepts and principles of human resource management.</p>	<p>1. Students will be able understand the core concepts of human resource management.</p> <p>2. Students will be able understand different practices of human resource managements.</p> <p>3. Students will be able apply the concepts in real life.</p>
		G-303	BUSINESS STATISTICS	<p>1. To familiarise students with basic statistical tools used for managerial decision making. 2. Know about the</p>	<p>1. Students will be able to understand the statistical tools. 2. Students will</p>

				practical implications of statistical tools.	be able to apply the statistical tools.
		C-307	MANAGEMENT PRINCIPLES AND APPLICATION	<ol style="list-style-type: none"> 1. Understanding of basic management concept 2. Understanding of management Principles and Practices 	<ol style="list-style-type: none"> 1. Students will be able to understand the basic management concept 2. Students will be able to understand the management Principles and Practices
		C-303	INCOME TAX LAW & PRACTICE	<ol style="list-style-type: none"> 1. To impart basic knowledge of the provisions of the Income Tax & Law & Practices. 2. To discuss practically solution involving issues Income Tax Law. 3. To teach a fundamental understanding of the provisions of the Income tax Act as well as related laws and practices 	<ol style="list-style-type: none"> 1. Students will be able to understand basic concepts of Income tax calculation of all the employees and business sector. 3. Students will be understand provisions related to Income Tax . 3. Students will be able to apply tax calculation in real World situation.
		SE-302	ENTREPRENEURSHIP DEVELOPMENT	<ol style="list-style-type: none"> 1. To develop and fortify entrepreneurial quality, i.e., motivation or need for achievement. 2. Understand the merits and demerits of becoming an entrepreneur. 3. To develop managerial skills among small entrepreneurs for improving the performance of small-scale industries. 	<ol style="list-style-type: none"> 1. Students will be able to understand the basic entrepreneurship concept. 2. Students will learn the uncertainty involved in running a business.

		SEC-403	RETAIL MANAGEMENT	<ol style="list-style-type: none"> 1. To acquaint students with the basic concepts of retail management. 2. To give students' practical understanding of the concepts so that they can utilise it in real life. 	<ol style="list-style-type: none"> 1. Students will be able to grasp the concepts. 2. Students will be able to use the related concepts in real life.
		C-408	COST ACCOUNTING	<p>To acquaint the students with basic concepts used in cost accounting, various methods used in cost ascertainment, and cost accounting bookkeeping system</p>	<ol style="list-style-type: none"> 1. Students will be able to learn basic concepts of cost accounting. 2. Students will be able to understand material and labor cost 3. Students will be able to understand overheads 4. Students will be able to understand methods of costing 5. Students will be able to understand bookkeeping in cost accounting 6. Students will be able to understand the practical implications of cost accounting
		C-512	FINANCIAL MANAGEMENT	<p>The objective of this course is to acquaint students with the concepts of financial management.</p>	<ol style="list-style-type: none"> 1. Students will be able to learn basic concepts of financial management. 2. Students will be able to understand working capital management. 3. Students will be able to understand investment

					<p>decisions. 4. Students will be able to understand dividend policy. 5. Students will be able to understand the practical implications of financial management</p>
		DSE- 501	MANAGEMENT ACCOUNTING	<p>This course provides the students an understanding of the application of accounting techniques for management.</p>	<ol style="list-style-type: none"> 1. Students will be able to learn basic concepts of management accounting. 2. Students will be able to understand the preparation of cash flow statements. 3. Students will be able to understand absorption and marginal costing 4. Students will be able to understand budgeting for profit planning 5. Students will be able to understand the practical implications of management accounting.
		DSE- 502	ADVANCE FINANCIAL ACCOUNTING	<p>The basic aim of this paper is to acquaint the students with advanced topics in accounting.</p>	<ol style="list-style-type: none"> 1. Students will be able to understand the accounts of banking companies 2. Students will be able to understand the accounts of Life Insurance Companies 3. Students will be able to understand the General Insurance Companies 4. Students will be able to

					understand investment accounts 5. Students will be able to understand the practical implications of advanced financial accounting
		C-511	PRINCIPLES OF MARKETING	1. Understanding the concept of marketing. 2. Understanding the applications of marketing	1. Students will be able to understand the concept of marketing. 2. Students will be able to understand the applications of marketing.
		DSE-502 G-III	CONSUMER BEHAVIOUR	1. Perceiving the students, the principles influencing consumer behaviour. 2. Perceiving the students, the factors influencing consumer behaviour. 3. Understanding the consumer market.	1. Students will be able to perceive the principles influencing consumer behaviour. 2. Students will be able to understand the factors influencing consumer behaviour. 3. Students will be able to understand the consumer market.
		DSE-502 G-III	RETAIL MANAGEMENT	1. Acquaint students with distribution methods. 2. Acquaint students with retailing system.	1. Students will be able to acquaint themselves with distribution methods. 2. Students will be able to acquaint themselves with retailing system.
		DSE 602 G-III	ADVERTISING MANAGEMENT	The course will acquaint the students about advertisement and sales promotion.	1. Students will be able to understand the importance of advertising in a competitive market

					<p>scenario.</p> <p>2. Students will be able understand the merits and demerits of various advertising media.</p>
		DSE 601 G-III	SERVICE MARKETING	<p>The objective of this course is to acquaint students with the nature and forms of services and their marketing implications.</p>	<p>1. Students will get an idea of the scope of venturing into service marketing.</p>
		C-613	AUDITING	<p>The course aims at imparting knowledge about the principles and methods of auditing and their applications.</p>	<p>1. Students will be expected to understand the objective of Auditing, the concepts of errors and frauds, principles and different types of audit.</p> <p>2. Students will be able to construct the factors involved in preparation of Audit plan and Audit programme.</p> <p>3. Students will be expected to evaluate the importance of assessment of internal control and internal checks. Also, they would learn about Test check and Audit sampling as audit techniques</p> <p>Students will be expected to understand about the audit report</p>

		C-614	GST LAW & PRACTICE	<p>This course is intended to introduce the students with the structure of Indirect tax in India. The principles of indirect tax and direct taxes are also been included for conceptualization of tax structure.</p>	<ol style="list-style-type: none"> 1. The students are also expected to learn the concept of GST and its history. 2. They will also learn about the record keeping aspects under GST regime and filling of GST return periodically as per the prescribed procedure. 3. The students will be able to understand the constitutional expect of GST. <p>The students will be able to calculate GST liability, registration, and payment of tax.</p>
		DSE 601	SECURITY ANALYSIS AND PORTFOLIO MANAGEMENT	<p>The objective of this course is to acquaint the students with the basics of Security analysis and portfolio management</p>	<ol style="list-style-type: none"> 1. The students will be able to understand about investment, investment analysis and risk associated with the investment. 2. The students will be able to comprehend about portfolio analysis, diversification and models of diversification 3. The students will be expected to analyse portfolio with different pricing models

					4. The students will be able to measure and evaluate portfolio performance and risk and return.
		DSE 602	FINANCIAL STATEMENT ANALYSIS	The basic aim of this course is to acquaint students with the skill of Financial Statement Analysis	<ol style="list-style-type: none"> 1. The students will be expected to learn the different parameters for evaluating financial statements using different tools and techniques. 2. The students will be expected to understand different ratios to evaluate financial statement. 3. The students will be expected to understand financial reporting 4. The students will be expected to be understand about corporate social responsibility and corporate governance. The students will be expected to understand reporting by different financial organizations.

Assamese UG CBCS

SL NO.	SUBJECT	COURSE CODE	COURSE TITLE	OBJECTIVE
1	Assamese (Honours)	Assamese-C-I	History of Assamese Literature-I	এই কাকতৰ যোগেদি প্ৰথমতে অসমীয়া সাহিত্যৰ যুগবিভাজনৰ পৰিচয়েৰে ছাত্ৰ-ছাত্ৰীসকলক অসমীয়া সাহিত্যৰ সমগ্ৰ পৰিক্ৰমাৰ এক সাধাৰণ পৰিচয় প্ৰদান কৰি লৈ তাৰ পাছত লোক সাহিত্যৰ পৰা শংকৰোত্তৰ যুগলৈকে ৰচিত অসমীয়া সাহিত্যৰাজিৰ সামগ্ৰিক গতি-প্ৰকৃতিৰ ধাৰণা দিবলৈ বিচৰা হৈছে।
		Assamese -C-2	History of Assamese Literature-II	সাহিত্যৰ বুৰঞ্জীৰ অন্তৰ্গতভাৱে ছাত্ৰ-ছাত্ৰীসকলক আধুনিক অসমীয়া ভাষা-সাহিত্যৰ প্ৰতিষ্ঠাকালৰেপৰা সাম্প্ৰতিক কাললৈকে সাহিত্যৰ গতি-প্ৰকৃতিৰ ধাৰণা প্ৰদানেই এই কাকতৰ উদ্দেশ্য।
		Assamese -C-3	Introduction to linguistic	প্ৰাচ্য আৰু পাশ্চাত্যৰ ভাষা সম্পৰ্কীয় চিন্তা-চৰ্চাৰ ইতিহাস জনাৰ লগতে ভাষা আৰু ভাষাবিজ্ঞান সম্পৰ্কীয় বিভিন্ন দিশসমূহৰ পৰিচয় পাব পৰাকৈ এই কাকতখন প্ৰস্তুত কৰা হৈছে।
		Assamese- C-4	Poetics	অসমীয়া সাহিত্য অধ্যয়নৰ তাত্ত্বিক আধাৰৰূপে ভাৰতীয় তথা পাশ্চাত্য সাহিত্যতত্ত্বৰ জ্ঞান অপৰিহাৰ্য। এই দুয়ো পৰম্পৰাৰ সাহিত্যতত্ত্বৰ প্ৰাথমিক জ্ঞান দিবৰ বাবে এই কাকত প্ৰস্তুত কৰা হৈছে।
		Assamese- C-5	Literary Criticism	সাহিত্য সমালোচনা সাহিত্য অধ্যয়নৰ অপৰিহাৰ্য অংগ। সেয়েহে বিভিন্ন প্ৰকাৰৰ সাহিত্য সমালোচনাৰ পৰিচয় আৰু পদ্ধতি তথা বিভিন্ন প্ৰকাৰৰ সাহিত্যৰ স্বৰূপ সম্পৰ্কীয় ধাৰণা প্ৰদান এই কাকতৰ উদ্দেশ্য।

		<p>Assamese -C-6</p>	<p>Selection from Assamese poetry</p>	<p>লোককবিতাৰে যাত্ৰা আৰম্ভ কৰা অসমীয়া কবিতাই চৰ্যাপদৰ ৰূপত প্ৰথম লিখিত ৰূপ গ্ৰহণ কৰে। অসমীয়া কবিতাৰ ইতিহাস তথা গতি-প্ৰকৃতি সম্পৰ্কে ছাত্ৰ-ছাত্ৰীক অৱগত কৰোৱা এই কাকতখনৰ প্ৰধান উদ্দেশ্য। ইয়াৰ বাবে লোককবিতাৰে আৰম্ভ কৰি চৰ্যাপদ-প্ৰাক্শংকৰী-শংকৰী-শংকৰোত্তৰ যুগ আৰু বৰ্তমান অসমীয়া কবিতাৰ পৰা উল্লেখযোগ্য কেইটিমান চানেকিৰ অধ্যয়নো এই কাকতত সন্নিবিষ্ট কৰা হৈছে। ইয়াৰপৰা ছাত্ৰ-ছাত্ৰীসকলে আৰম্ভণিৰেপৰা বৰ্তমান কাললৈ অসমীয়া কবিতা সম্পৰ্কে স্পষ্ট ধাৰণা লাভ কৰিব পাৰিব।</p> <p>সংস্কৃতিৰ সাধাৰণ ধাৰণাসহ অসমৰ নৃ-গোষ্ঠী আৰু সংস্কৃতি সম্পৰ্কে ছাত্ৰ-ছাত্ৰীক অৱগত কৰাবৰ বাবে এই কাকতখন প্ৰস্তুত কৰা হৈছে।</p>
		<p>Assamese -C-7</p>	<p>Studies on the Culture of Assam</p>	<p>এইখন কাকতে সাহিত্য অধ্যয়নৰ জগতত উদীয়মান বিষয় তুলনামূলক সাহিত্যৰ সাধাৰণ ধাৰণা দিয়াৰ লগতে ভাৰতীয় সাহিত্য তথা অসমীয়া সাহিত্যৰ প্ৰেক্ষাপটত তুলনামূলক সাহিত্য অধ্যয়নৰ প্ৰাসংগিকতা আৰু প্ৰণালীৰ আভাস দিব।</p>
		<p>Assamese- C-8</p>	<p>Theory and Practice of Comparative Literature</p>	

		Assamese- C-9	Indo-Aryan Language and Assamese	<p>ভাৰতীয়া আৰ্যভাষাৰ ক্ৰমবিকাশৰ ৰূপৰেখা আৰু সংস্কৃত, পালি আৰু প্ৰাকৃত ব্যাকৰণৰ বৈশিষ্ট্যসমূহৰ পৰিচয় পাব পৰাকৈ কাকতখন প্ৰস্তুত কৰা হৈছে। সংস্কৃত, পালি আৰু প্ৰাকৃত ভাষাৰ স্বৰূপৰ লগত পৰিচয় প্ৰদানৰ বাবে এই ভাষাবোৰৰ নিৰ্বাচিত পাঠ দিয়া হৈছে।</p>
		Assamese- C-10	Selection from Assamese Prose	<p>প্ৰাচীন কালতে উদ্ভৱ ঘটা অসমীয়া গদ্য সাহিত্যই আধুনিক কালত আহি বৈবিধ্য-বৈচিত্ৰ্যময় ৰূপ লাভ কৰেহি। এই কাকতত অসমীয়া গদ্য সাহিত্যৰ উদ্ভৱ তথা বিকাশধাৰা সম্পৰ্কে জানিবৰ বাবে চমু পৰিচয়সহ অসমীয়া গদ্যৰ জনক ভট্টদেৱৰপৰা আৰম্ভ কৰি বৰ্তমানলৈকে অসমীয়া গদ্য সাহিত্যৰ নিৰ্বাচিত অংশ সন্নিবিষ্ট কৰা হৈছে।</p>
		Assamese-C-11	Assamese Drama	<p>অসমীয়া নাট্য সাহিত্যৰ ইতিহাস অন্যান্য ভাৰতীয় ভাষাসমূহতকৈ তুলনামূলকভাৱে অধিক সমৃদ্ধ। এই কাকতৰপৰা ছত্ৰ-ছত্ৰীসকলে প্ৰাচীন কালৰপৰা পাশ্চাত্য লক্ষণসম্বলিত আধুনিক নাটকলৈকে অসমীয়া নাটকৰ চমু ইতিহাস জনাব লগতে নিৰ্বাচিত অসমীয়া নাটকৰ অধ্যয়নেৰে অসমীয়া নাট্য সাহিত্যৰ গতি-বিধি সম্পৰ্কে জানিব পাৰিব।</p>
				<p>অসমীয়া ভাষাৰ ধ্বনিতত্ত্ব, ৰূপতত্ত্ব, বাক্যতত্ত্বৰ সম্পৰ্কে পৰিচয় পাব পৰাকৈ এই কাকতখন যুগুত কৰা হৈছে। ইয়াৰ লগত সংগতি ৰাখি ধ্বনিসংগ্ৰহৰ তাত্ত্বিক জ্ঞান লাভৰ বাবে বাগিন্দ্ৰিয়ৰ পৰিচয়, ধ্বনি, বৰ্ণ, উপধ্বনিৰ সংগ্ৰহ আৰু ধ্বনি পৰিবৰ্তনৰ নিয়মসমূহ প্ৰথম গোটটিত সন্নিবিষ্ট কৰা হৈছে।</p>

		Assamese-C-12	Studies on Assamese Linguistics	<p>অসমীয়া গদ্যৰ নিৰ্বাচিত অংশৰ অধ্যয়নৰ যোগেদি আধুনিক কালৰ স্তৃষ্টিশীল গদ্য সাহিত্যৰ বৈবিধ্য-বৈচিত্ৰ্য তথা গতি-প্ৰকৃতি সম্পৰ্কে ছাত্ৰ-ছাত্ৰীয়ে জানিব পৰাকৈ এই কাকত প্ৰস্তুত কৰা হৈছে।</p>
		Assamese –C-13	Selection from Assamese Prose	<p>এই কাকতখনৰ যোগেদি অসমৰ ভাষাৰ সাধাৰণ পৰিচয়ৰ লগতে অসমীয়া ভাষা আৰু উপভাষাৰ সাধাৰণ পৰিচয় ছাত্ৰ-ছাত্ৰীসকলে পাব পাৰিব। অসমৰ ভাষাৰ ভাষাতাত্ত্বিক বৈশিষ্ট্য, অসমীয়া ভাষা আৰু আৰ্যভিন্ন ভাষাৰ আদান-প্ৰদান ইত্যাদি বিষয়সমূহৰ সামগ্ৰিক পৰিচয় পাব পৰাকৈ এই কাকতখন যুগুত কৰা হৈছে।</p>
		Assamese- C-14	Language and Script of Assam	<p>অসমীয়া ভাষাৰে যোগাযোগৰ দক্ষতা বৃদ্ধিৰ ক্ষেত্ৰত ছাত্ৰ-ছাত্ৰীসকলক সহায় কৰিব পৰাকৈ এই কাকতখনি প্ৰস্তুত কৰা হৈছে।</p>
			Communicative Assamese	<p>অসমীয়া ভাষাৰ শুদ্ধ উচ্চাৰণ, শুদ্ধ আখৰ জোঁটনি, অসমীয়া জতুৱা ঠাঁচ আৰু খণ্ডবাক্যৰ প্ৰয়োগৰ লগতে উপযুক্ত পৰিভাষাৰ প্ৰয়োগ, অসমীয়া ব্যাকৰণৰ বিবিধ দিশ আৰু অসমীয়া অভিধানৰ সাধাৰণ পৰিচয় পাব পৰাকৈ এই কাকতখন যুগুত কৰা হৈছে।</p>

		AECC-2	Assamese Grammar, Laxicon and Idiomatic Usage	<p>বহু ভাষাৰে প্ৰকাশ লাভ কৰা ভাৰতীয় সাহিত্যৰ একক ৰূপত পৰিচয় প্ৰদানৰ লগতে নিৰ্বাচিত ৰচনাৰ অধ্যয়নৰ যোগেদি তাৰ কিছু আভাস দিবৰ উদ্দেশ্যেৰে এই কাকতখনি পাঠ্যক্ৰমত সন্নিবিষ্ট কৰা হৈছে।</p> <p>‘বিশ্ব সাহিত্য’ পদটো অথবা ধাৰণাৰ সৃষ্টি আৰু বিস্তৃতিৰ লগতে বিশ্ব প্ৰেক্ষাপটত গুৰুত্ব আৰু খ্যাতি লাভ কৰা নিৰ্বাচিত সাহিত্যৰ অধ্যয়নৰ সুযোগ প্ৰদান এইখনি কাকতখনিৰ লক্ষ্য।</p>
		DSE-1	Introduction to Indian Literature	<p>ছাত্ৰ-ছাত্ৰীসকলক কোনো এজন বিশিষ্ট অসমীয়া লেখকৰ বিষয়ে বিস্তৃতভাৱে জনাৰ সুবিধা প্ৰদানৰ উদ্দেশ্যে তলত দিয়া লেখকেইজনৰ ভিতৰত যি কোনো এজনৰ জীৱন আৰু সাহিত্য-কৃতিৰ বিষয়ে অধ্যয়ন কৰাৰ সুবিধাৰ বাবে এই কাকতখন দিয়া হৈছে।</p>
		DSE-2	Introduction to World Literature	
		DSE-3	Special Author	

		DSE-4 (A)		
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Education UG CBCS

SL NO.	SUBJECT	COURSE CODE	COURSE TITLE	OBJECTIVE	EXPECTED LEARNER OUTCOMES
1		EDNH101	PHILOSOPHICAL FOUNDATIONS OF EDUCATION	<p>On completion of the course, students will be able to</p> <ul style="list-style-type: none"> -describe the modern concepts, aims, functions and role of philosophy and role of education -Explain the basic tenants of the given Indian and western philosophies and their influence on education -appraise the contribution of given philosophers in the domain of education 	

		EDNH102	SOCIOLOGICAL FOUNDATIONS OF EDUCATION	<p>On completion of the course, students will be able to</p> <ul style="list-style-type: none"> -explain the concept, approaches and theories of educational sociology -illustrate social aspects, progress and role of education -describe various social groups, political ideologies and their bearings on education 	
		EDNH201	PSYCHOLOGICAL FOUNDATIONS OF EDUCATION	<p>On completion of the course, students will be able to</p> <ul style="list-style-type: none"> -explain the concept, nature, scope and uses of psychology in education -explain the influence of growth and development in education -describe the meaning, concept, variables, types and theories of learning 	

				<p>-discuss the concept and of theories of learning and creativity</p> <p>-explain the meaning, concept, factors and theories of personality</p> <p>-describe the concept of mental health and mental hygiene</p>	
		EDNH202	EDUCATIONAL ADMINISTRATION AND MANAGEMENT	<p>On completion of the course, students will be able to</p> <p>-explain the concept, types and principles of educational management and educational leadership</p> <p>-define the concept of educational planning and its importance</p> <p>-analyse the role and importance of educational supervision</p>	
		EDNH301	GREAT EDUCATORS AND EDUCATIONAL THOUGHTS	<p>On completion of the course, students will be able to</p> <p>-describe the contribution and relevance of the given</p>	

				philosophers and their educational thoughts	
		EDNH302	MEASUREMENT AND EVALUATION IN EDUCATION	<p>On completion of the course, students will be able to</p> <ul style="list-style-type: none"> -explain the meaning, nature, scope, need and types of measurement and evaluation in education -describe the meaning of psychological test, their characteristics and process of construction -describe some specific tools to measure achievement, intelligence, personality and aptitude -describe the meaning and nature of various statistical measures and their uses. 	
		EDNH303	EXPERIMENTAL PSYCHOLOGY AND LABORATORY PRACTICAL	<p>On completion of the course, students will be able to</p> <ul style="list-style-type: none"> -explain the concept, scope and need of experimental psychology 	

				<ul style="list-style-type: none"> -conduct and report of psychological experiments -describe the meaning and nature of memory and its related concepts -explain attention and related practical -explain the concept, theories and methods of learning and related practical 	
		EDNH401	EDUCATION IN PRE INDEPENDENT INDIA	<p>On completion of the course, students will be able to</p> <ul style="list-style-type: none"> -explain the concept of education in the context of Indian heritage -critically examine and evaluate education in the ancient, medieval and British India 	
		EDNH402	TECHNIQUES OF TEACHING	<p>On completion of the course, students will be able to</p> <ul style="list-style-type: none"> -explain the meaning, nature and principles of teaching 	

				<ul style="list-style-type: none"> -understand role of teacher, lesson planning, teaching and microteaching skills -objective, method and approaches of teaching in different level of education 	
		EDNH4020	TEACHING PRACTICE	<p>On completion of the course, students will be able to</p> <ul style="list-style-type: none"> -demonstrate and integrate teaching skill in classroom 	
		EDNH403	EDUCATIONAL TECHNOLOGY	<p>On completion of the course, students will be able to</p> <ul style="list-style-type: none"> -describe the concept, nature and components of educational technology -distinguish between educational technology and instructional technology -apply ICT in teaching learning -describe the concept, component, characteristics of effective communication 	
		EDNH501	EDUCATION IN POST INDEPENDENT INDIA	<p>On completion of the course, students will be able to</p>	

				<p>-describe the educational scenario at the time of independence</p> <p>-describe the recent educational development in India</p>	
		EDNH502	EDUCATION IN WORLD PERSPECTIVE	<p>On completion of the course, students will be able to</p> <p>-explain the meaning, nature, scope, purpose and methods of comparative education</p> <p>-explain the organization, administration, objectives and examination system of different countries</p> <p>-explain open education in world perspective</p>	
		EDNH601	EMERGING TRENDS IN INDIAN EDUCATION	<p>On completion of the course, students will be able to</p> <p>-explain the need of constitutional provision for education</p> <p>-identify the challenges of Indian education</p>	

				-explain the political and international influence on education	
		EDNH602	CHILD AND ADOLESCENT PSYCHOLOGY	<p>On completion of the course, students will be able to</p> <ul style="list-style-type: none"> -explain the significance of the study -describe the development changes of adolescence and childhood -explain the role of society in this regard 	
		DSEED501	GUIDANCE AND COUNSELING	<p>On completion of the course, students will be able to</p> <ul style="list-style-type: none"> -describe meaning, nature, purpose, scope, principles, types, areas, characteristics and functions of guidance and counseling -explain the qualities and role of a counselor 	
		DSEED502	VALUE EDUCATION	<p>On completion of the course, students will be able to</p>	

				<p>-explain the concept, importance and need of value education</p> <p>-explain the promotion of value through education</p>	
		DSEED503	INCLUSIVE EDUCATION	<p>On completion of the course, students will be able to</p> <p>-explain the concept, need and importance of special education, integrated education, inclusive education</p> <p>-describe policy perspective towards education of socially disadvantaged section</p>	
		DSEED504	MENTAL HEALTH ISSUES	<p>On completion of the course, students will be able to</p> <p>-explain the need and importance of mental health issues in emerging society</p> <p>-role of different agencies in this regard</p> <p>-describe various component of positive psychology</p>	

				-integrate yoga in day-to-day life	
		DSEED601	HUMAN RIGHTS EDUCATION	<p>On completion of the course, students will be able to</p> <ul style="list-style-type: none"> -explain the definition, nature, scope, theories and constitutional perspective of human rights -describe methods and activities of teaching human right education -explain the role of different agencies 	
		DSEED602	ECONOMICS OF EDUCATION	<p>On completion of the course, students will be able to</p> <ul style="list-style-type: none"> -describe meaning, scope and importance of economics of education -explain the historical development -explain different types of educational cost 	
		DSEED603	GENDER AND EDUCATION	<p>On completion of the course, students will be able to</p>	

				<p>-explain the meaning and nature of gender and its related concepts</p> <p>-describe the gender issues related to school education</p> <p>-analyse the laws and policies related to gender equality</p>	
		DSEED604	PROJECT WORK	<p>On completion of the course, students will be able to</p> <p>-prepare a project report</p>	

Mathematics UG CBCS

SL NO.	SUBJECT	COURSE CODE	COURSE TITLE	OBJECTIVE	EXPECTED LEARNER OUTCOMES
1.	Mathematics (Honours)	C1	CALCULUS(P)	<p>After going through this course, the students will be able to</p> <ol style="list-style-type: none"> 1. Apply Calculus in real life problems 2. Formulate mathematical models 	
		C2	ALGEBRA	<p>After going through this course, the students will be able to</p>	

				<ol style="list-style-type: none"> 1. Describe various algebraic structures on sets 2. Identify the algebraic structures present in different branches of sciences. 	
		C3	REAL ANALYSIS	<p>After going through this course, the students will be able to</p> <ol style="list-style-type: none"> 1. Identify the properties of the number system. 2. Describe various analytical properties of the real number system . 	
		C4	DIFFERENTIAL EQUATIONS(P)	<p>After going through this course, the students will be able to</p> <ol style="list-style-type: none"> 1. Use the techniques to solve differential equations. 2. Apply these techniques in various mathematical models used in real life problems. 	

		C5	THEORY OF REAL FUNCTIONS	<p>After going through this course, the students will be able to</p> <ol style="list-style-type: none"> 1. Discuss limit, continuity and differentiability of real valued functions. 2. Expand functions in series and different form of remainders. 	
		C6	GROUP THEORY I	<p>After going through this course, the students will be able to</p> <ol style="list-style-type: none"> 1. Describe various group structures on sets. 2. Identify the group structures present in different branches of sciences. 	
		C7	PDE AND SYSTEMS OF ODE	<p>After going through this course, the students will be able to</p> <ol style="list-style-type: none"> 1. Make mathematical formulations and their solutions of various physical problems; 2. Design mathematical models used in heat, wave. 	

				3. Describe the Laplace equation and their solutions.	
		C8	NUMERICAL METHODS(P)	<p>After going through this course, the students will be able to</p> <ol style="list-style-type: none"> 1. Discuss various numerical methods and interpolation formulae 2. Apply numerical techniques for solving differential equation. 	
		C9	RIEMANN INTEGRATION AND SERIES OF FUNCTIONS	<p>After going through this course, the students will be able to</p> <ol style="list-style-type: none"> 1. Riemann integration, improper integrals 2. Differentiation and integration of powerseries 	
		C10	RING THEORY AND LINEAR ALGEBRA-I	<p>After going through this course, the students will be able to</p> <ol style="list-style-type: none"> 1. Describe various ring structures on sets. 2. Solve the system of linear equations. 	

		C11	MULTIVARIATE CALCULUS	<p>After going through this course, the students will be able to</p> <ol style="list-style-type: none"> 1. Extend the concepts from one variable calculus to function of several variables 2. Demonstrate the ability to think critically and solving application of real-world problems involving double/triple integrals. 	
		C12	GROUP THEORY-II	<p>After going through this course, the students will be able to</p> <ol style="list-style-type: none"> 1. Apply results from preliminary concepts to solve contemporary problems. 2. Apply in communication theory, electrical engineering, computer science and cryptography 	
		C13	METRIC SPACES AND COMPLEX ANALYSIS	<p>After going through this course, the students will be able to describe</p>	

				<ol style="list-style-type: none"> 1. various properties of metrics spaces 2. complex number system, its differentiation and integration. 	
		C14	RING THEORY AND LINEAR ALGEBRA-II	<p>After going through this course, the students will be able to</p> <ol style="list-style-type: none"> 1. Apply theorems proof/ solution techniques to solve real world problems 2. Find the matrix associated with a linear transformation w.r.t. given bases and can understand the relationship between operations of linear transformations and corresponding matrices. 	
		DSE-1	ANALYTICAL GEOMETRY	<p>After going through this course, the students will be able to</p> <ol style="list-style-type: none"> 1. Sketch parabola, ellipse and hyperbola 2. Solve various geometrical problems analytically. 	

		DSE-2	NUMBER THEORY	<p>After going through this course, the students will be able to</p> <ol style="list-style-type: none"> 1. obtain solutions of Diophantine equations 2. define number theoretic functions 	
		DSE-3	LINEAR PROGRAMMING	<p>After going through this course, the students will be able to</p> <ol style="list-style-type: none"> 1. describe various optimization techniques pertaining to linear programming. 2. apply linear programming to problems arising out of real-life problems. 	
		DSE-4	MATHEMATICAL METHODS	<p>After going through this course, the students will be able to</p> <ol style="list-style-type: none"> 1. Construct mathematical models or real-world problems. 2. Solve real world problems through the studied theories. 	

2.	Generic elective	MATHEMATICS-GE-1	DIFFERENTIAL CALCULUS	<p>After going through this course, the students will be able to</p> <ol style="list-style-type: none"> 1. differentiate functions 2. find tangent normal, curvature, asymptotes etc. 	
		MATHEMATICS-GE-2	DIFFERENTIAL EQUATIONS	Students will be able to describe various methods for solving differential equations.	
		MATHEMATICS-GE-3	REAL ANALYSIS	<p>After going through this course, the students will be able to</p> <ol style="list-style-type: none"> 1. Analyse the properties of the number line 2. Describe various analytical properties of the real number system 	
		MATHEMATICS-GE-4	ALGEBRA	<p>After going through this course, the students will be able to</p> <ol style="list-style-type: none"> 1. Describe various algebraic structures onsets 2. Identify the algebraic structures present in different branches of sciences 	

English UG CBCS

SL NO.	SUBJECT	COURSE CODE	COURSE TITLE	OBJECTIVE	EXPECTED LEARNER OUTCOMES
1.	English (Honours)	English-C-1	INDIAN CLASSICAL LITERATURE	<p>The objective of this course is to acquaint the students with the rich cultural heritage of ancient Indian literature, especially Sanskrit Literature. Indian classical literature can claim the rare distinction of attaining the summit of creative excellence and artistic/aesthetic sensibility, especially in Sanskrit in the immortal plays of Kalidasa, the epics <i>The Ramayana</i> and <i>The Mahabharata</i>, Shudraka's <i>Mrcchakatika</i>, among others. Although Srimanta Sankaradeva of Assam cannot be regarded as 'classical' from the purview of temporality, his works are characterised by classical sensibilities and in the context of Assamese literature and culture, his works are held as immortal classics. Therefore, Sankardeva's inclusion in this course is determined by his</p>	

				works' timeless appeal and relevance. One of his famous plays <i>Parijata Harana</i> has been included.	
		English-C-2	EUROPEAN CLASSICAL LITERATURE	European Classical literature implies the literature of ancient Greece and Rome. The study of 'ancient Greek literature' implies a study of literature written in Greek in the pre-Christian period, by non-Christians in the first six centuries of the Christian era. Roman literature, written in the Latin language remains an enduring legacy of the culture of ancient Rome. Latin literature drew heavily on the traditions of other cultures, particularly the more mature literary tradition of Greece, and the strong influence of earlier Greek authors are seen. The purpose of this course is to acquaint learners with the great heritage of European classical literature, starting from Homer's epic <i>The Iliad</i> to the satires of	

				<p>Horace. The importance of this course rests on the fact that English literature is heavily indebted to the classical works of Greece and Rome. Whether it is tragedy or comedy, satire or criticism, epic or lyric, the influence of classical literature in the works of the English authors is clearly in evidence. Therefore, learners will be acquainted with immortal classics like <i>The Iliad</i> and <i>Metamorphosis</i>, they get to learn about the difference between the Greek classics and the Latin classics, the different genres dabbled in by the classical writers, such as, tragedy, comedy, epic, satire, criticism and so forth.</p>	
		English-C-3	INDIAN WRITING IN ENGLISH	<p>Indian Writing in English refers to the body of work by writers in India who write English and whose native language could be one of the numerous languages of India. It is also associated with the</p>	

				<p>works of members of the Indian Diaspora. As a category, this production comes under the broader realm of postcolonial literature- the production from previously colonized countries such as India. Indian English Literature is an honest enterprise to demonstrate the ever rare gems of Indian Writing in English. From being singular and exceptional, rather gradual native flare - up of geniuses, Indian Writing in English has turned out to be a new form of Indian culture and voice in which India converses regularly. Indian Writers - poets, novelists, essayists, and dramatists have been making momentous and considerable contributions to world literature since pre - Independence era, the past few years have witnessed a gigantic prospering and thriving of Indian English Writing in the global market. Indian English Literature has attained an independent status in the realm of world</p>	
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				<p>Literature. Wide ranges of themes are dealt within Indian Writing in English. While this literature continues to reflect Indian culture, tradition, social values and even Indian history through the depiction of life in India and Indians living elsewhere, recent Indian English fiction has been trying to give expression to the Indian experience of the modern predicaments. The aim of this course is to introduce learners to Indian Writing in English from the colonial to the postcolonial period. Issues such as identity politics, gendered differences, home, dislocation, language among others shall be underscored with the intention to understand the diversity of Indian culture and tradition across spatiality.</p>	
		English-C-4	POETICS BRITISH POETRY AND DRAMA: 14TH TO 17TH CENTURIES	<p>The objective of this course is to acquaint the learners with British poetry and drama from Chaucer to Shakespeare. The texts prescribed relate to the Age of Chaucer, Pre-Elizabethan and Elizabethan</p>	

				<p>periods. Shakespeare figures predominantly in this course, with a tragedy, comedy and two sonnets prescribed. Marlowe's play encapsulates the spirit of the Renaissance, thereby placing the Elizabethan period in a proper perspective.</p>	
		English-C-5	AMERICAN LITERATURE	<p>The objective of this course is to introduce the learners to American literature, a field that could be considered as comparatively recent in formulation, when compared to the literature of Britain and Continental Europe. It is a literature steeped in the reactionary philosophy of its Puritan forbears, and has a strong individualistic spirit running through it. The reality or illusion of the Great American Dream, the transcendentalist movement, the history of slavery in the South, the great economic depression etc., forms important contexts to American history and literature, and this course would attempt to highlight these issues as much as</p>	

				possible. All of these would be taken up in this course.	
		English-C-6	POPULAR LITERATURE	Popular literature includes those writings intended for the masses and those that find favour with large audiences. It can be distinguished from artistic literature in that it is designed primarily to entertain (britannia.com). The objective of this course is to acquaint learners with popular literature, such as crime thriller, graphic fiction, children's literature and so forth, generally regarded by purists to be 'low-brow' and meant for easy mass consumption. However, it would be wrong to assume such a position insofar as the lines of distinction between what is literary and what is popular tends to be blurred.	
		English-C-7	BRITISH POETRY AND DRAMA: 17TH AND 18TH CENTURY	English literature of the Seventeenth and the Eighteenth century was dominated by epoch-making political events, such as the Puritan Interregnum and the Restoration. These events were responsible for ushering	

				<p>in changes in the thought-processes of poets like Milton and Pope, dramatists like Webster and Behn, and so forth. From the romantic excesses of the Elizabethan literature to a literature marked by restraint and order, the learners would be in a position to experience a whole gamut of feelings that define a period and contradistinguishing it from another.</p>	
		English-C-8	BRITISH LITERATURE: 18TH CENTURY	<p>Continuing with Eighteenth-century literature, this course offers an array of texts across genres. The eighteenth-century was an age in which new modes of creative expression were coming to the fore, particular prose narratives of the likes of Swift and Sterne, among others. Irony and satire became important tools to depict society's ills. The age was also characterised by</p>	

				<p>importance given to gender issues. Congreve's play bears enough testimony to this fact. Since, this period is also referred to as the Age of Enlightenment; 'reason' became the locus from which human's actions and cognition issued forth. Therefore, a fundamental philosophical shift ushered in, in the wake of the culture of positivism that set in during this period.</p>	
		English-C-9	BRITISH ROMANTIC LITERATURE	<p>The literature of the Romantic period is considered to be the most affective in terms of the ways in which it was able to connect with people across class lines. Product of the revolutionary zeal precipitated by two great revolutions – the French Revolution and the American War of Independence – the highly imaginative, rhetorical, emotive, visionary, metaphysical, epical,</p>	

				<p>sensuous aspects of the works, especially poetry, gave tremendous heft to this literature celebrating Nature in all its beauty, majesty and terror. The Gothic Novel became a dominant genre, which attempted to debunk the structure of rationality by emphasising on the reality of the supernatural.</p>	
		English-C-10	BRITISH LITERATURE: 19TH CENTURY	<p>The nineteenth-century is emblematic of a certain spiritual crisis that had set in due to the powerful impact of scientific ideology. Utilitarian values exhorting personal aggrandisement at the cost of social responsibility became the practice of daily lives of the people. Such an attitude finds ample illustration in the works of the nineteenth-century novelists and poets. This period, especially after 1837 is termed as ‘Victorian’ literature – a term that evokes notions of propriety,</p>	

				<p>prudishness, censorship, among others, that was in sharp relief against the spirit of the erstwhile Romantic period. The period is also marked by ground-breaking theories propounded by Darwin, Marx and Freud, which impacted the thought processes of the people to such a remarkable extent that its effects are felt up to the present. Therefore, a reading of nineteenth-century English literature provides a fascinating opportunity to immerse oneself into the fraught historical context determined by contradictory, oppositional drives and processes.</p>	
		English-C-11	WOMEN'S WRITING	<p>Unarguably the truest fact about human society is domination of women by men. Patriarchy believes in the superiority of man over women in all walks of life. Therefore, women were denied agency to air their</p>	

				<p>views publicly or in writings. The fact that women had to resort to male pseudonyms in order to find readership is merely one instance to prove how patriarchal ideology has a stranglehold over the society at large. Since women have been systematically silenced by 'phallogocentric' ideology, they find it rather difficult to articulate their views. Privileging women's writing is a way by means of which the thought, anxieties, fears, desires, emotions of the 'second sex' can be addressed. The objective of this course is to introduce learners to women's writing, and in doing so attempting to underline the manner in which power operates to silence women from articulating their views. Apart from that, the course would also try to situate women's writing in a space that transcends or upends the male writing tradition through various (subversive) ways.</p>	
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		English-C-12	BRITISH LITERATURE: THE EARLY 20TH CENTURY	<p>The early Twentieth-century British literature was characterised by experimentations on the level of both form and content. The imperialistic World War I impacted the minds of the people across Europe to such an extent that they began to suffer from various neurotic symptoms. Capitalism with its dehumanized processes and practices produced alienated, disenfranchised subjects, triggering a philosophical shift that was encapsulated in symbolism, existentialism, cubism, Dadaism, expressionism, and nihilism. These philosophies found ample space in Modernism in Literature, and this particular course attempts to chart these philosophical trajectories through early twentieth-century texts, particularly novels and poetry.</p>	
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		English –C-13	MODERN EUROPEAN DRAMA	<p>The twentieth century marked the revival of drama after it was forced to shut down during the Puritan Interregnum. Even though the revival started during the Restoration Period, it subsequently lost ground during the Romantic and the Victorian Period. It was with the onset of the twentieth-century that drama made a magnificent return. It was in Europe, particularly the plays of the Norwegian playwright Henrik Ibsen, the German playwright Bertolt Brecht and French playwright Samuel Beckett that drama became an important vehicle for representing the political, social, individual, economic conditions the post-war Europe, with all its attendant ills and trauma. This course intends to read the plays by placing the epochal events of the period as the backdrop.</p>	
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		English- C-14	POSTCOLONIAL LITERATURES	This course introduces postcolonial literature to the learners. The importance of postcolonial studies in a globalised world in which more than three-quarters of the people living in the world today have had their lives shaped by the experience of colonialism, cannot be overestimated. The main focus in the course is on literary texts and literary analysis. The literary works chosen are English language texts from the erstwhile colonized countries.	
		AECC-1	ENGLISH COMMUNICATION	The purpose of this course is to introduce students to the theory, fundamentals and tools of communication and to develop in them vital communication skills which should be integral to personal, social and professional interactions. One of the critical links among human beings and an important	

				<p>thread that binds society together is the ability to share thoughts, emotions and ideas through various means of communication: both verbal and non-verbal. In the context of rapid globalization and increasing recognition of social and cultural pluralities, the significance of clear and effective communication has substantially enhanced. The present course hopes to address some of these aspects through an interactive mode of teaching-learning process and by focusing on various dimensions of communication skills. Some of these are: Language of communication, various speaking skills such as personal communication, social interactions and communication in professional situations such as interviews, group discussions and office environments, important reading skills as well as</p>	
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				<p>writing skills such as report writing, note-taking etc. While, to an extent, the art of communication is natural to all living beings, in today's world of complexities, it has also acquired some elements of science.</p>	
		AECC-2	ALTERNATIVE ENGLISH (SEMESTER 1)	<p>This course is offered in lieu of MIL, for learners who do not have the required competence to take up any of the modern Indian languages that are part of the undergraduate curriculum. The objective of this course is to acquaint learners with some of the most representative Prose Pieces and Short Stories in the western literary and cultural canon. However, the course also accommodates texts that are significant in Indian writing in English. The rationale for including this course as part of AECC courses is to impart learners</p>	

				with the idea of the best that has been written (or translated) in the East as well as the West.	
		DSE-2	LITERATURE OF THE INDIAN DIASPORA	Generally, <i>diasporic literature</i> deals with alienation, displacement, existential rootlessness, nostalgia, quest for identity, hybridity and so forth. Indian diaspora writers have contributed immensely to literature, especially those writing in English. Salman Rushdie, Amitav Ghosh, Vikram Seth, Jhumpa Lahiri, Rohinton Mistry, V.S. Naipaul etc. are luminaries in the field of fiction and their works have earned both critical acclaim and commercial success. The objective of this course is to introduce learners to literature of the Indian diaspora keeping in view the issues that haunt the writers who have settled abroad, despite being Indians in terms of roots and emotional make-up.	
		DSE-3	LITERARY CRITICISM	The course presents an overview of major trends in	

				literary criticism from the Romantic period to the present. The critical trajectory comprises of Romantic theory of poetry propounded by Wordsworth and Coleridge, modernist poetics of Woolf and Eliot, New Criticism of Richards and Cleanth Brooks, and an introduction to recent trends in criticism, particularly feminist criticism (by Maggie Humm.	
		DSE-5	LITERARY THEORY	Literary theory is a field which is presently in great academic demand. It involves reading texts by deploying discourse/s. These discourses have political, social, economic, gendered, cultural values, and when one reads literature through such discursive lenses, interpretation of texts tend to be multiple and heterogeneous. The objective of this course is to acquaint learners with four relevant discourses or theories. These are Marxism, Feminism,	

				Poststructuralism, and Postcolonial Studies.	
		DSE-7	PARTITION LITERATURE	<p>The Partition was perhaps the most horrific event of the twentieth-century subcontinent's history. Thousands of innocent people across the divided nation (India and Pakistan) lost their lives, millions lost their homes, and migrations of unimaginable magnitude took place. It is important to understand the backgrounds and reason for the partition, but also to consider its effects on the lives of the people involved. The historical accounts may not be enough; imaginative literature helps fill in the gaps in understanding the emotional impact of these events on people's lives. So, the objective of this course is to read literature that captures the sense of the times. There will also be film screenings since cinema also helps capture both the horror and the repercussions of these events.</p>	

Zoology UG CBCS

SL NO.	SUBJECT	COURSE CODE	COURSE TITLE	OBJECTIVE	EXPECTED LEARNER OUTCOMES
1.	Zoology (Honours)	ZC101T	NON-CHORDATES I: PROTISTS TO PSEUDOCOELOMATES	The objective of the course is to expose the students to various forms of protozoa and worms; their classification and structural anatomy	
		ZC102T	PRINCIPLES OF ECOLOGY	The objective of the course is to familiarize the students with fundamentals of ecology and impacts of ecological factors on living organisms.	
		ZC203T	NON-CHORDATES II: COELOMATES	The objective of the course is to expose the students to various forms of coelomates, their classification and structural anatomy.	
		ZC204T	CELL BIOLOGY	The objective of the course is to expose the students to structure and function of a cell as the fundamental unit of life.	
		ZC305T	DIVERSITY OF CHORDATA	The objective of the course is to expose the students to various forms of chordates,	

				their classification and structural anatomy.	
		ZC306T	ANIMAL PHYSIOLOGY: CONTROLLING AND COORDINATING SYSTEMS	The objective of this course is to provide a foundation for understanding the complexities of the coordination system of animal body.	
		ZC307T	FUNDAMENTALS OF BIOCHEMISTRY	The objective of this course is to expose the students to biomolecules of living organisms, their interactions for perpetuation of life.	
		ZC408T	COMPARATIVE ANATOMY OF VERTEBRATES		
		ZC409T	ANIMAL PHYSIOLOGY: LIFE SUSTAINING SYSTEMS		
		ZC410T	BIOCHEMISTRY OF METABOLIC PROCESSES		
		ZC511T	MOLECULAR BIOLOGY		
		ZC512T	PRINCIPLES OF GENETICS		
		ZC613T	DEVELOPMENTAL BIOLOGY		
		ZC614T	EVOLUTIONARY BIOLOGY		

2.	Generic elective	ZD503T	ENDOCRINOLOGY		
		ZD504T	BIOLOGY OF INSECTA		
		ZD607T	FISH AND FISHERIES		
		ZD608T	IMMUNOLOGY		

Botany UG CBCS

SL NO.	SUBJECT	COURSE CODE	COURSE TITLE	OBJECTIVE	EXPECTED LEARNER OUTCOMES
1.	Botany (Honours)	BC101T	MICROBIOLOGY AND PHYCOLOGY	The objective of this course is to provide knowledge to the students on various forms of microbes and algae - their characteristics and economic importance	
		BC102T	BIOMOLECULES AND CELL BIOLOGY	The objective of this course is to expose the students on molecular organisations life and also discusses cellular and molecular processes of life.	

		BC203T	MYCOLOGY AND PHYTOPATHOLOGY	The objective of this course is to expose the students on the fungal world, different fungal diseases; their economic importances etc.	
		BC204T	ARCHEGONIATE	The objective of this course is to expose the students on Bryophyte, Gymnosperms and Fossil Plants	
		BC305T	ANATOMY OF ANGIOSPERMS	The objective of this course is to expose the students on the structural and anatomical organisations of plant tissues and their development	
		BC306T	ECONOMIC BOTANY	The objective of this course is to expose the students on various economically important plants and plant products	
		BC307T	GENETICS	The objective of this course is to impart knowledge of the principles of heredity and different mechanisms of inheritance	
		BC408T	MOLECULAR BIOLOGY	The objective of this course is to expose the students to Biological Macromolecules and various processes	

				involved with these macromolecules	
		BC409T	PLANT ECOLOGY & PHYTOGEOGRAPHY	The objective of this course is to expose the students to interaction of plant with its surroundings and also the geographic distribution of different plants	
		BC410T	PLANT SYSTEMATICS	The objective of this course is to expose the students to identification, classification and nomenclature of higher plants	
		BC511T	REPRODUCTIVE BIOLOGY OF ANGIOSPERMS	The objective of this course is to expose the students to the process and mechanisms of plant reproduction	
		BC512T	PLANT PHYSIOLOGY	The objective of this course is to expose the students to different physiological processes in plant life	
		BC613T	PLANT METABOLISM	The objective of this course is to expose the students to various metabolic processes involved with plant life	
		BC614T	PLANT BIOTECHNOLOGY	The objective of this course is to expose the	

				students to application of modern tools and techniques in Biology	
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Philosophy UG CBCS

SL NO.	SUBJECT	COURSE CODE	COURSE TITLE	OBJECTIVE	EXPECTED LEARNER OUTCOMES
1.	Philosophy (Honours)	C1	INDIAN PHILOSOPHY	This paper intends to acquaint the students with the basic problems of epistemology and metaphysics in classical Indian philosophy	
		GE1	INTRODUCTION TO LOGIC	This paper aims to make the student familiar with the basic ideas of Aristotelian and symbolic logic	
		C2	LOGIC	This paper aims to acquainting the students with logical reasoning and testing of them in Aristotelian and Modern Symbolic Logic	
		C3	ANCIENT GREEK PHILOSOPHY	This paper intends to acquaint the students with the basic problems of epistemology	

				and metaphysics in Greek Philosophy	
		C4	INDIAN LOGIC	This paper intends to acquaint the students with the development of critical understanding of Indian logic	
		C5	MODERN WESTERN PHILOSOPHY	This paper attempts to introduce students with the problems of modern western philosophy and to develop systematic and critical understanding	
		C6	ETHICS OF INDIAN PHILOSOPHY	This paper intends to acquaint the students with the basic ethical concepts of Indian philosophy and develop critical thinking	
		C7	WESTERN ETHICS	This paper attempts to introduce students with different ethical concepts of western philosophy and develop critical understanding	
		GE3	FUNDAMENTALS OF INDIAN PHILOSOPHY	This paper intends to acquaint the students with the basic problems of epistemology and metaphysics in classical Indian Philosophy	
		C8	CONTEMPORARY INDIAN PHILOSOPHY-I	This paper intends to acquaint the students with the philosophical problems from the perspective of contemporary Indian philosophers	

		C9	SOCIAL AND POLITICAL PHILOSOPHY	This paper intends to acquaint the students with different social and political ideas from philosophical perspective and to develop systematic and critical understanding about them	
		C10	PHILOSOPHY AND RELIGION	This paper intends to acquaint the students with different philosophical issues and theories regarding religion	
		GE4	APPLIED ETHICS	This paper intends to acquaint the students with the basic ideas of applied ethics concerning value in life, environmental ethics and professional ethics	
		C11	CONTEMPORARY INDIAN PHILOSOPHY-II	This paper intends to explore different interpretations given by contemporary Indian thinkers and to develop critical understanding about them	
		C12	PHENOMENOLOGY AND EXISTENTIALISM	This paper attempts to introduce some very important movements and positions of western philosophy with specific thinkers	
		C13	COMPARATIVE RELIGION	This paper intends to acquaint the students with characteristics and comparative study of	

				different aspects of world religions	
		C14	ANALYTICAL PHILOSOPHY	This paper intends to acquaint the analytical trends in western philosophy and its different dimensions leading to critical analysis	

Economics UG CBCS

SL NO.	SUBJECT	COURSE CODE	COURSE TITLE	OBJECTIVE	EXPECTED LEARNER OUTCOMES
1.	Economics (Honours)	ECNHC101	INTRODUCTORY MICROECONOMICS	This course is designed to expose the students to the basic principles of microeconomic theory.	
		ECNHC102	MATHEMATICAL METHODS FOR ECONOMICS-I	The objective of this sequence is to transmit the body of basic mathematics that enables the study of economic theory at the undergraduate level, specifically the courses on microeconomic theory, macroeconomic theory, statistics and econometrics set out in this syllabus.	

		ECNHC201	INTRODUCTORY MACROECONOMICS	<p>This course aims to introduce the students to the basic concepts of Macroeconomics. This course discusses the preliminary concepts associated with the determination and measurement of aggregate</p> <p>Macroeconomic variables like savings, investment, GDP, money, inflation and the balance of payments.</p>	
		ECNHC202	MATHEMATICAL METHODS FOR ECONOMICS - II	<p>The objective of this sequence is to transmit the body of basic mathematics that enables the study of economic theory at the undergraduate level, specifically the courses on microeconomic theory, macroeconomic theory, statistics and Econometrics set out in this Syllabus.</p>	
		ECNHC301	ESSENTIALS MICROECONOMICS	OF <p>The course is designed to provide a sound training in microeconomic theory to formally analyze the behaviour of individual agents. This</p>	

				course looks at the behaviour of the consumer and the producer and also covers the behaviour of a competitive firm.	
		ECNHC302	ESSENTIALS OF MACROECONOMICS	This course introduces the students to formal modeling of a macro-economy in terms of analytical tools. It discusses various alternative theories of output and employment determination in a closed economy in the short run as well as medium run, and the role of policy in this context. It also introduces the students to various theoretical issues related to an open economy.	
		ECNHC303	STATISTICAL METHODS FOR ECONOMICS	This is a course on statistical methods for economics. It begins with some basic concepts and terminology that are fundamental to statistical analysis and inference. It then develops the notion of probability, followed by probability distributions of discrete and continuous random variables and of joint distributions. This is followed by a discussion on sampling	

				techniques used to collect survey data.	
		ECNHC401	ADVANCED MICROECONOMICS	This course is a sequel to Essentials of Microeconomics. The emphasis will be on giving conceptual clarity to the student coupled with the use of mathematical tools and reasoning. It covers general equilibrium and welfare, imperfect markets and topics under information economics	
		ECNHC402	ADVANCED MACROECONOMICS	This course is a sequel to Essentials of Macroeconomics. In this course, the students are introduced to the long run dynamic issues like growth and technical progress. It also provides the micro-foundations to the various aggregative concepts used in the previous course.	
		ECNHC403	INTRODUCTORY ECONOMETRICS	This course provides a comprehensive introduction to basic econometric concepts and techniques. It covers statistical concepts of hypothesis testing, estimation and diagnostic checking of simple and multiple regression models. The	

				course also covers the consequences of and tests for misspecification of regression models.	
		ECNHC501	INDIAN ECONOMY- I	Using appropriate analytical frameworks, this course reviews major trends in economic indicators in India in the post-Independence period, with particular emphasis on paradigm shifts and turning points.	
		ECNHC502	DEVELOPMENT ECONOMICS - I	This is the first part of a two-part course on economic development. The course begins with a discussion of alternative conceptions of development and their justification. It then proceeds to aggregate models of growth and cross-national comparisons of the growth experience that can help evaluate these models.	
		ECNHC601	INDIAN ECONOMY- II	This course examines sector-specific policies and their impact in shaping trends in key economic indicators in India. Emphasis needs to be given in capturing the emerging issues.	
		ECNHC602	DEVELOPMENT ECONOMICS-II	This is the second module of the economic development	

				<p>sequence. It begins with basic demographic concepts and their evolution during the process of development. The structure of markets and contracts is linked to the particular problems of enforcement experienced in poor countries. The governance of communities and organizations is studied and this is then linked to questions of sustainable growth. The course ends with reflections on the role of globalization and increased international dependence on the process of development.</p>	
		ECNHDSE505	MONEY AND FINANCIAL MARKETS	<p>This course exposes students to the theory and functioning of the monetary and financial sectors of the economy. It highlights the organization, structure and role of financial markets and institutions. It also discusses interest rates, monetary management and instruments of monetary control. Financial and banking sector reforms and monetary policy with special reference to India are also covered.</p>	

		ECNHDSE506	PUBLIC ECONOMICS	The paper deals with the nature of government intervention and its implications for allocation, distribution and stabilization.	
		ECNHDSE602	ENVIRONMENTAL ECONOMICS	This course aims to focus on economic causes of environmental problems; in particular, how economic principles are applied to environmental questions and their management through various economic institutions, economic incentives and other instruments and policies. It also aims to address Economic implications of environmental policy as well as valuation of environmental quality, quantification of environmental damages, tools for evaluation of environmental projects such as cost-benefit analysis and environmental impact assessments.	
		ECNHDSE605	HISTORY OF ECONOMIC THOUGHT	The objective of this course is to acquaint the learners with the historical developments in the economic thoughts propounded by different schools.	

Political Science UG CBCS

SL NO.	SUBJECT	COURSE CODE	COURSE TITLE	OBJECTIVE	EXPECTED LEARNER OUTCOMES
1.	Political Science (Honours)	C1	UNDERSTANDING POLITICAL THEORY	The course introduces the students to the idea of political theory, its history and approaches, and an assessment of its critical and contemporary trends.	
		C2	CONSTITUTIONAL GOVERNMENT AND DEMOCRACY IN INDIA	This course acquaints the students with the constitutional design of States' structure and institutions, and their actual working over time.	
		C3	POLITICAL THEORY: CONCEPTS AND DEBATES	The Course helps the student familiarize with the basic normative concepts of political theory. Each concept is related to a crucial political issue that requires analysis with the aid of our conceptual understanding.	
		C4	POLITICAL PROCESS IN INDIA	This course maps the working of 'modern' institutions, premised on the existence of an individuated society, in a context marked by communitarian solidarities,	

				and their mutual transformation thereby. It also familiarizes students with the working of the Indian state, paying attention to the contradictory dynamics of modern state power.	
		C5	INTRODUCTION TO COMPARATIVE GOVERNMENT AND POLITICS	The purpose of the course is to familiarize students with the basic concepts and approaches to the study of comparative politics. More specifically the course will focus on examining politics in a historical framework while engaging with various themes of comparative analysis in developed and developing countries.	
		C6	PERSPECTIVES ON PUBLIC ADMINISTRATION	The course provides an introduction to the discipline of public administration. This paper encompasses public administration in its historical context with an emphasis on the various classical and contemporary administrative theories.	
		C7	PERSPECTIVES ON INTERNATIONAL RELATIONS AND WORLD HISTORY	This paper seeks to equip students with the basic intellectual tools for understanding International Relations. It introduces	

				students to some of the most important theoretical approaches for studying international relations.	
		C8	POLITICAL PROCESSES AND INSTITUTIONS IN COMPARATIVE PERSPECTIVE	In this course students will be trained in the application of comparative methods to the study of politics.	
		C9	PUBLIC POLICY AND ADMINISTRATION IN INDIA	The paper seeks to provide an introduction to the interface between public policy and administration in India.	
		C10	GLOBAL POLITICS	This course introduces students to the key debates on the meaning and nature of globalization by addressing its political, economic, social, cultural and technological dimensions.	
		C11	CLASSICAL POLITICAL PHILOSOPHY	This course goes back to Greek antiquity and familiarizes students with the manner in which the political questions were first posed.	
		C12	INDIAN POLITICAL THOUGHT-I	This course introduces the specific elements of Indian Political Thought spanning over two millennia. The basic focus of study is on individual thinkers whose ideas are however framed by specific themes.	

		C13	MODERN POLITICAL PHILOSOPHY	Philosophy and politics are closely intertwined. This course will explore this convergence by identifying five main tendencies here. Students will be exposed to the manner in which the questions of politics have been posed in terms that have implications for larger questions of thought and existence.	
		C14	INDIAN POLITICAL THOUGHT-II	Based on the study of individual thinkers, the course introduces a wide span of thinkers and themes that defines the modernity of Indian political thought. The objective is to study general themes that have been produced by thinkers from varied social and temporal contexts.	
		DSE-1A	CONTEMPORARY POLITICS IN ASSAM	The primary aim of this paper is acquaint with the students with the politics of contemporary Assam and its neighbouring states. Moreover, being located in the Northeast region it is invariably the concern of the students to have proper understanding of the region.	

		DSE-2A	HUMAN RIGHTS IN COMPARATIVE PERSPECTIVE	This course attempts to build an understanding of human rights among students through a study of specific issues in a comparative perspective.	
		DSE 3A	PUBLIC POLICY IN INDIA	This course provides a theoretical and practical understanding of the concepts and methods that can be employed in the analysis of public policy. The course will be useful for students who seek an integrative link to their understanding of political science, economic theory and the practical world of development and social change.	
		DSE 4A	INDIA'S FOREIGN POLICY IN A GLOBALIZING WORLD	This course's objective is to teach students the domestic sources and the structural constraints on the genesis, evolution and practice of India's foreign policy.	

Geography CBCS

SL NO.	SUBJECT	COURSE CODE	COURSE TITLE	OBJECTIVE	EXPECTED LEARNER OUTCOMES
1.	Geography (Generic Elective)	GE 101AT6	DISASTER MANAGEMENT	<p>1. To make the students aware about the concepts of hazards, disasters, risk and vulnerability</p> <p>2. Attempt has been made to prepare the students about the Do's And Don'ts during and post disaster.</p>	
		GE201BT6	REGIONAL DEVELOPMENT	<p>1. To introduce the student about the basic of regions and the need of regional planning in India.</p> <p>2. The students will also learn about the strategies and models used for regional planning.</p>	
		GE 301AT6	CLIMATE CHANGE: VULNERABILITY AND ADAPTATION	<p>1. to make the students understand climate change and the factors responsible for such changes</p>	

				2. The students will also learn about the various negative impact of climate change on flora and fauna and its mitigations.	
		GE401AT6	INDUSTRIAL GEOGRAPHY	<p>1. This paper is to make the students aware about the nature and scope of industrial geography</p> <p>2. The students will also know about the various industrial policies of India and impact of industries in the environment, society and economy of India</p>	

Rural Development CBCS

SL NO.	SUBJECT	COURSE CODE	COURSE TITLE	OBJECTIVE	EXPECTED LEARNER OUTCOMES
1.	Rural Development (Generic Elective)	GE- RD1	FUNDAMENTALS OF RURAL DEVELOPMENT	To give a theoretical background about the subject of Rural Development along with the prospects of its dimensions.	
		GE- RD2	RURAL ECONOMY OF INDIA	To give an idea on various aspects of rural economy of India and their role in development of rural economy.	
		GE- RD3	RURAL SOCIETY OF INDIA	To give a brief outline on social sector of rural India along with their status and problems	
		GE- RD4	RURAL DEVELOPMENT PROGRAMMES AND INSTITUTIONS IN INDIA	1. To impart knowledge to the learners on various rural development programmes currently operated in India which will enable the learners to assess their achievements	

				2. The course acquaints the learners with the different strategies adopted by different Rural Development Institutions in India	
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History CBCS

SL NO.	SUBJECT	COURSE CODE	COURSE TITLE	OBJECTIVE	EXPECTED LEARNER OUTCOMES
1.	History (Generic Elective)	HISGE 1	HISTORY OF ASSAM: 1228 – 1826	<p>1. s to give a general outline of the history of Assam from the 13th century to the occupation of Assam by the English East India Company in the first quarter of the 19th century.</p> <p>2. It aims to acquaint the students with major stages of developments in the political, social and cultural history of the state during the most important formative period</p>	
		HISGE 2	HISTORY OF INDIA FROM THE EARLIEST TIMES TO 1526	<p>1. s to acquaint the students with the general outline of the history of India from the known earliest times to the coming of</p>	

				the Mughals to India in the first quarter of the 16th century 2. It is aimed at giving them a comprehensive idea of the developments in all spheres of life during this period	
		HISGE3	HISTORY OF INDIA:1526-1947		
		HISGE4.1	HISTORY OF MODERN ASSAM: 1826-1947		

HINDI UG CBCS

SL NO.	SUBJECT	COURSE CODE	COURSE TITLE	OBJECTIVE	EXPECTED LEARNER OUTCOMES
1.	Hindi (Honours)	Hindi- C-1	हिंदी साहित्य का इतिहास : (रीतिकाल तक)	हिंदी साहित्य के क्रमिक विकास द्वारा हमें हमारी मध्यकालीन सांस्कृतिक विरासत की दिशा, दशा और साहित्यिक गतिविधियों का पता चलता है; जिसे तीन कालखण्डों में बाँटकर उसे अध्ययन की व्यवस्था की गई है। हिंदी की साहित्यिक गतिविधियों की विकास-यात्रा में विभिन्न पड़ावों को जाने	

				<p>बिना उसका मूल्यांकन संभव नहीं है। इसे ध्यान में रखते हुए पाठ्यक्रम बनाया गया है; ताकि छात्रों को हिंदी की सही दिशा, दशा का पता चल सके और वे उसका लाभ उठाते हुए अपने लक्ष्य की ओर बढ़ सके।</p>	
		Hindi -C-2	<p>हिंदी साहित्य का इतिहास : (आधुनिक काल)</p>	<p>आधुनिक काल में पाश्चात्य प्रभाव के फलस्वरूप कई सामाजिक और ढाँचागत परिवर्तन देखने को मिले जिसने साहित्य की दिशा बादल दी। इस काल में हिंदी साहित्य में कई नई विधाओं का जन्म हुआ। विशेष रूप से गद्य की विभिन्न विधाओं का विकास इस काल की महत्वपूर्ण देन है। जिसने एक नये मूल्य बोध को जन्म दिया, जिसकी उपादेयता आज भी है। परिवर्तन का नित्यत्व एक नई दिशा की ओर इशारा करती है। छात्र उससे प्रभावित हुए बगैर रह जाते। इस बात को ध्यान में</p>	

				रखते हुए इसे पाठ्यक्रम में रखा गया है।	
		Hindi -C-3	आदिकालीन एवं मध्यकालीन हिंदी कविता	हिंदी साहित्य की एक अविच्छिन्न धारा आदिकाल से प्रवाहित होती रही है जिसपर तदयुगीन परिस्थितियों का प्रभाव देखा जा सकता है। आदिकालीन और मध्यकालीन कवियों ने अपनी कविताओं के माध्यम से उसे दर्शाने का प्रयास किया है। अतः उनकी रचनाओं को जाने वगैर उस युग का मूल्यांकन संभव नहीं है। अतः इस काल की कविताओं का सम्यक अध्ययन इस पत्र का प्रमुख उद्देश्य रहा है।	
		Hindi-C-4	आधुनिक हिंदी कविता (छायावाद तक)	हिंदी साहित्य का आधुनिक काल का प्रारम्भ 1850 ई० से माना जाता है जिसका मूल कारण पाश्चात्य प्रभाव रहा है। पाश्चात्य संसाधनों से रूबरू होने के कारण हमारी सोच में परिवर्तन होने लगा।	

				<p>इस काल में भारत में राष्ट्रीय बीज अंकुरित हुए। छापेखाने का आविष्कार हुआ जिसका प्रभाव प्रत्यक्ष और परोक्ष रूप से हिंदी काव्य पर भी पड़ा। इसकी झलक इस काल की कविताओं में भी दिखाई पड़ता है। अतएव इस काल के विषय में सम्यक अनुशीलन करने तथा जानकारी हासिल करना ही इस पत्र का मुख्य उद्देश्य है।</p>	
		Hindi-C-5	छायावादोत्तर कविता	<p>बीसवीं शताब्दी भारत के लिए उथल-पुथल वाला काल रहा है। हर क्षेत्र में यहाँ बदलाव देखने को मिलता है। साहित्यिक दृष्टि से देखें तो जितना परिवर्तन पिछले सौ वर्षों में नहीं हुआ था; उतना बदलाव अगले 50 वर्षों में दिखने को मिला। इस काल में भारत को आजाद कराने की छटपटाहट और आजादी के बाद राजनीति से बहुत जल्द ही मोहभंग होने लगा। जिसके प्रति एक विद्रोही स्वर स्वाधीनोत्तर</p>	

				कविताओं में देखने को मिलती है। भारतीय मानसिकता, साहित्य और कविता में होने वाले परिवर्तनों की ओर ध्यान दिलाना इस पत्र का मुख्य उद्देश्य है।	
		Hindi-C-6	भारतीय काव्यशास्त्र	भारतीय काव्यशास्त्रीय चिंतन का क्षेत्र बहुत व्यापक रहा है। इस क्षेत्र की परंपरा सुदीर्घ और शक्तिशाली रही है। इस दृष्टि से छात्रों के भारतीय काव्यशास्त्रीय चिंतन के बारे में जानना जरूरी हो जाता है। काव्यशास्त्र की परंपरा, काव्य लक्षण, काव्य हेतु, काव्य प्रयोजन, विभिन्न साहित्यशास्त्रीय सिद्धांत को इस पाठ्यक्रम में रखा गया है, जो काव्यशास्त्र की महत्वपूर्ण उपलब्धि है। इसके अध्ययन से छात्रों में समीक्षात्मक शक्ति बढ़ेगी।	
		Hindi-C-7	पाश्चात्य काव्यशास्त्र एवं नई समीक्षा	पश्चिम में साहित्य चिंतन की सुदीर्घ परंपरा को विद्यार्थियों के लिए सहज, ग्राह्य रूप से सुलभ कराने की दिशा	

				<p>में प्रस्तुत पाठ्यक्रम एक महत्वपूर्ण प्रयास है। विश्लेषण पद्धति, नई समीक्षा, विभिन्न वाद, इस पाठ्यक्रम का प्रमुख आकर्षण है। भारतीय काव्यशास्त्र के साथ-साथ पाश्चात्य काव्यशास्त्र के बारे में भी जानना आवश्यक है। इसमें विद्यार्थी विभिन्न विद्वानों के द्वारा दिये गए सिद्धांतों के साथ पाश्चात्य काव्यशास्त्र के स्वरूप के बारे भी समझने में सक्षम होंगे।</p>	
		Hindi -C-8	भाषा विज्ञान और हिंदी भाषा	<p>भाषा विज्ञान अध्ययन की वह शाखा है जिसमें भाषा की उत्पत्ति, स्वरूप, विकास आदि का वैज्ञानिक एवं विश्लेषणात्मक अध्ययन किया जाता है। अध्ययन के अनेक विषयों में से आजकल भाषाविज्ञान को विशेष महत्व दिया जा रहा है। विद्यार्थी इस पाठ्यक्रम के अध्ययन के पश्चात भाषा एवं भाषा की प्रकृति के साथ-साथ मानव जीवन में भाषा के महत्व को समझने में</p>	

				<p>सक्षम होंगे। इसके अलावा भाषाविज्ञान के अंगों एवं विभिन्न शाखाओं से परिचित होंगे। भाषाविज्ञान के सैद्धान्तिक पक्ष, भारतीय आर्य भाषाओं का ऐतिहासिक विकास, लिपि के ऊद्भव और विकास, देवनागरी लिपि की जानकारी भी प्राप्त कर सकेंगे। इस बात को ध्यान में रखकर इसे पाठ्यक्रम में जगह दिया गया है।</p>	
		Hindi -C-9	हिंदी उपन्यास	<p>इस पत्र में गद्य साहित्य की महत्वपूर्ण विधा उपन्यास को लिया गया है। उपन्यास के अंतर्गत 'गबन', 'त्यागपत्र', 'मानस का हंस', 'महाभोज' को शामिल किया गया है। जब प्रेमचंद की उपन्यासों की बात होती है तो 'गोदान' के बिना उपन्यास साहित्य पर सार्थक चर्चा नहीं हो सकती है। जैनेन्द्र कुमार की महत्वपूर्ण कीर्ति 'त्यागपत्र' में व्यक्तिमन के विविध बिन्दुओं पर</p>	

				<p>विचार किया गया है। 'क्लासिक' का सम्मान पा चुका 'मानस का हंस' गोस्वामी तुलसीदास के जीवन पर आधारित अमृतलाल नागर का वह उपन्यास है जिसके द्वारा गोस्वामी जी के जीवन से संबन्धित अनछुए पहलुओं को जाना जा सकता है। मन्नू भण्डारी के 'महाभोज' उपन्यास में साधारण जन की जनतंत्र में कहाँ जगह है, यह जान पायेंगे। इन्हीं सब बातों को ध्यान में रख कर इन चारों उपन्यासों को पाठ्यक्रम में जगह दी गई है।</p>	
		Hindi-C-10	हिंदी कहानी	<p>इस पत्र के अंतर्गत कहानी के विकास से छात्रों का परिचय कराया जाएगा। युग के परिवर्तन के बीच कहानी की कथावस्तु और रूपविधान में परिवर्तन होता रहा है; और उससे कहानी की दिशा बदलती रहती है। इस पाठ्यक्रम में कहानी की विकास यात्रा की जानकारी इन कहानियों के माध्यम से आप जान सकेंगे। हिंदी</p>	

				<p>के प्रसिद्ध कहानीकारों की कहानियों से जीवन के तमाम महत्वपूर्ण बिन्दुओं की समझ होगी। सन साठ के बाद की कहानियों के बदले हुए तेवर से विद्यार्थियों का परिचय होगा। प्रेमचंद से लेकर कृष्णा सोबती तक की कहानियों का एक कलात्मक यात्रा तय करने के बाद वैश्विकरण के दौर में शैक्षिक लक्ष्यों के साथ-साथ साहित्य साधना में छात्र अपनी भूमिका तलाश कर सकेंगे। इन्हीं सब को ध्यान में रख कर इन कहानियों को पाठ्यक्रम में जगह दी गई है।</p>	
		Hindi-C-11	हिंदी नाटक एवं एकांकी	<p>यह पाठ्यक्रम नाट्य साहित्य से संबन्धित है। इस पत्र का उद्देश्य साहित्य की सर्वाधिक सशक्त एवं प्रभावशाली विधा के रूप प्रचलित नाटक की उपादेयता की ओर ध्यान आकर्षित कराना है। भारतेन्दु तथा उनके समकालीन नाटककारों ने किस तरह लोक चेतना के विकास</p>	

				<p>के लिए नाटकों की रचना की तथा समकालीन सामाजिक समस्याओं को नाटकों में अभिव्यक्त करने का अवसर प्राप्त किया। उसके बाद साहित्यिक रंगकर्म, नाट्यलेखन की परंपरा चली, छात्र उन तमाम बातों की जानकारी प्राप्त कर सकेंगे। समकालीन समय में पूर्णांग नाटक और एकांकी नाटक की प्रासंगिकता पर विचार कर सकेंगे। समग्रतः नाटक के प्रति रुचि उत्पन्न होने से अभिनय द्वारा अपनी आजीविका का संधान कर पायेंगे।</p>	
		Hindi- C12	हिंदी निबंध एवं अन्य गद्य विधाएँ	<p>हिंदी साहित्य में निबंधों की महत्वपूर्ण भूमिका रही हैं । इन निबंधों में निहित संदेशों के माध्यम से विद्यार्थी लाभान्वित होंगे। प्रस्तुत पाठ्यक्रम की प्रमुख विशेषताएँ और उपलब्धियाँ कुछ इस प्रकार हैं- प्रस्तुत पाठ्यक्रम में हिंदी साहित्य के</p>	

				<p>ऐसे चुनिंदा निबंधों को रखा गया है जिससे विद्यार्थियों को ज्ञान वर्धन होगा । यहाँ निबंध के साथ ललित निबंध तथा व्यंग निबंध आदि का भी संयोजन किया गया है। रामचन्द्र शुक्ल, हजारी प्रसाद द्विवेदी, नगेन्द्र, शिवपूजन सहाय, विद्यानिवास मिश्र आदि के उच्च विचारों से वाकिफ होने का अवसर प्राप्त होगा ।</p>	
		Hindi-C-13	हिंदी की साहित्यिक पत्रकारिता	<p>हिंदी की साहित्यिक पत्रकारिता का हिंदी साहित्य में महत्वपूर्ण योगदान रहा है; इसी को मद्देनजर रखते हुए इसे अनिवार्य पाठ्यक्रम में रखा गया है । इन पत्र-पत्रिकाओं ने हिंदी साहित्य को एक नई दिशा प्रदान की थी तथा समय की मांगानुसार हिंदी साहित्य की सटीक आलोचना कर इसका मार्गदर्शन किया है । प्रस्तुत पाठ्यक्रम के</p>	

				<p>अध्ययन से हिंदी पत्रकारिता का संक्षिप्त परिचय प्राप्त होने के साथ-साथ हिंदी साहित्य जगत में इन पत्र-पत्रिकाओं के योगदान के बारे में भी जानकारी प्राप्त होगी। यहाँ हिन्दी पत्रकारिता के सम्पूर्ण इतिहास का अध्ययन किया जाएगा। पत्रकारिता के इतिहास के साथ-साथ हर युग की प्रमुख प्रवृत्तियों पर भी विचार किया गया है। हर युग की महत्वपूर्ण पत्र-पत्रिकाओं का संक्षिप्त परिचय दिया गया है।</p>	
		Hindi-C-14	प्रयोजनमूलक हिंदी	<p>प्रयोजनमूलक हिंदी मूलतः एक व्यावहारिक पाठ्यक्रम है। अनुप्रयुक्त भाषाविज्ञान के अंतर्गत इस पाठ्यक्रम में हिंदी के विविध प्रयोजनमूलक रूपों की चर्चा है। इस पाठ्यक्रम के अध्ययन से विद्यार्थियों को हिंदी की शैलियों हिंदी, उर्दू और हिन्दुस्तानी का ज्ञान प्राप्त होगा तथा हिंदी की</p>	

				<p>संवैधानिक स्थिति के बारे में जानकारी होगी, जो निःसंदेह लाभदायक होगा। हिंदी भाषा के उद्भव विकास के साथ-साथ हिंदी भाषा के मानकीकरण एवं उसके प्रयोग क्षेत्रों पर भी विचार किया गया है । यहाँ विविध प्रकार के सरकारी पत्राचारों का अध्ययन होगा और साथ ही हिंदी की पारिभाषिक शब्दावलियों का अनुशीलन कराया जाएगा । प्रयोजनमूलक हिंदी का सटीक अध्ययन रोजगार प्राप्ति में सहायक सिद्ध होगा ।</p>	
		Hindi- DSE -1	असमीया भाषा एवं साहित्य	<p>यह पत्र असमीया भाषा और साहित्य से संबंधित है। हिंदी के विद्यार्थियों के लिए अध्ययन की दृष्टि से यह पत्र नया होगा। साहित्य चाहे जहाँ का भी हो लेकिन</p>	

				<p>साहित्यिक प्रवृत्तियाँ थोड़े-बहुत अंतर के बावजूद लगभग एक जैसी ही होती हैं। असमीया एक आधुनिक भारतीय आर्यभाषा है। इसके उद्भव और विकास की जानकारी का ज्ञान होना जरूरी है। साथ ही वहाँ की साहित्यिक गतिविधियों की जानकारी भी आवश्यक है जिसको ध्यान में रखते हुए इस पत्र में असमीया साहित्य के इतिहास का सामान्य परिचय ('आदियुग से लेकर रोमांटिक युग') तक को पाठ्यक्रम में स्थान दिया गया है। श्रीमंत शंकरदेव के बिना असमीया साहित्य की कल्पना अधूरी है, इस बात को ध्यान में रखकर उनके और उनके समर्थ शिष्य माधवदेव की 'वरगीतों' को भी रखा गया है। रोमांटिक युग के चन्द्र कुमार अगरवाला और नलिनीबाला देवी की कविताओं के साथ सैयद अब्दुल मलिक और भवेन्द्र नाथ शङ्कीया की कहानियों को भी स्थान दिया गया है; ताकि विद्यार्थी</p>	
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				असमीया भाषा एवं साहित्य की गतिविधियों को भी जान सकें।	
		Hindi- DSE -2	छायावाद	छायावाद आधुनिक हिंदी साहित्य का एक महत्वपूर्ण पड़ाव है। प्रस्तुत पाठ्यक्रम में छायावाद के स्वरूप और विशेषताओं के साथ-साथ चतुष्टय कवियों की चुनिंदा कविताओं को स्थान दिया गया है। यह पाठ्यक्रम छात्रों में पाठ्यकृतियों के संदर्भ में समीक्षा की क्षमता को बढ़ायेगा। इस पाठ्यक्रम के अध्ययन के पश्चात छायावाद के स्वरूप और प्रवृत्तियों के अलावा युगीन प्रमुख कवियों की रचनाओं के अध्ययन, आस्वादन और मूल्यांकन कर सकेंगे। इसी बात को ध्यान में रखकर इसे पाठ्यक्रम में रखा गया है।	
		Hindi- DSE -3	तुलसीदास	संत कवि तुलसीदास की रचनाओं पर आधारित यह पाठ्यक्रम विद्यार्थियों के लिए अत्यंत लाभदायक सिद्ध	

				<p>होगा। उनके द्वारा लिखित भक्ति के पद सम्पूर्ण भक्ति साहित्य का अनमोल निधि हैं । उन्होंने रामचरितमानस की रचना कर तत्कालीन अशांत भारत में आदर्श और मर्यादा को पुनः स्थापित किया था। इसीलिए आज भी तुलसीदास की रचनाएँ प्रासंगिक हैं। इस पाठ्यक्रम का उद्देश्य तुलसीदास के असाधारण व्यक्तित्व पर प्रकाश डालना। रामचरितमानस के अध्ययन से विद्यार्थियों को आदर्श और मर्यादा के साथ साथ नैतिक ज्ञान भी प्राप्त होगा। कवितावली और गीतावली के माध्यम से तुलसीदास की काव्य प्रतिभा तथा भक्ति की जानकारी प्राप्त होगी। विनयपत्रिका हिंदी साहित्य का अनमोल निधि है।</p>	
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				तुलसीदास ने विनयपत्रिका में दास्य भक्ति का अत्यंत सुंदर प्रदर्शन किया है।	
		Hindi DSE -4	प्रेमचंद	हिंदी साहित्य के इतिहास में गद्य लेखन का उदय एक महत्वपूर्ण घटना के रूप में सामने आती है। साहित्यिक रूप में गद्य लेखन की शुरुआत सर्वप्रथम भारतेन्दु युग से होती है, लेकिन यहाँ भी गद्य का विकसित रूप निखर कर नहीं आ पाता है। 20 वीं शताब्दी के शुरुआत में गद्य लेखन का सुव्यवस्थित रूप हमारे सामने उभर कर सामने आता है। कथा सम्राट प्रेमचंद का आगमन इस काल में एक युगांतकारी के रूप में होता है, जो सूर्य की तरह अपने साहित्य से न केवल हिंदी जगत को बल्कि पूरे भारत को प्रकाशित करने लगते हैं। वे केवल कहानीकार और उपन्यासकार ही नहीं, एक नाटककार और निबंधकार भी थे। ऐसे साहित्यकार के बारे में जानना जरूरी	

				<p>हो जाता है। इस बात को ध्यान में रखकर इसे पाठ्यक्रम में स्थान दिया गया है।</p>	
2.	MIL-Hindi	AECC-2	हिंदी काव्य एवं गद्य साहित्य	<p>आधुनिक भारतीय भाषा एक अनिवार्य पत्र है। इस पत्र के माध्यम से विद्यार्थियों को साहित्य की हर विधा से परिचित कराने का प्रयास किया गया है। इस पत्र का मुख्य उद्देश्य छात्रों को भक्तिकालीन उच्चादर्श की ओर ध्यान दिलाना है। इसके साथ ही छायावादी, रहस्यवादी कविताओं के सौन्दर्य के अलावा प्रगतिवाद के समर्थक कवि 'केदारनाथ अग्रवाल' और प्रयोगवाद के जनक कवि 'अज्ञेय' के व्यक्तिवादी व्यक्तित्व को समझने का प्रयास है। बीसवीं शती में जन्म लेकर और कुछ ही समय में विकसित होकर साहित्य के एक महत्वपूर्ण विधा के रूप में स्थान बनाने वाली 'कहानी' और 'गद्य की कसौटी' 'निबंध' को भी</p>	

				स्थान दिया गया है। भारतीय संस्कृति, सांस्कृतिक एकता और व्यंग निबंधों का मुख्य विषय है।	
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Computer Science B.A. CBCS

SL NO.	SUBJECT	COURSE CODE	COURSE TITLE	OBJECTIVE	EXPECTED LEARNER OUTCOMES
1.	Computer Science (Generic Elective)	GE-1	COMPUTER FUNDAMENTALS		
		GE-2	MULTIMEDIA AND APPLICATIONS		
		GE-3	INTRODUCTION TO PROGRAMMING		
		GE-4	DESKTOP PUBLISHING		

Computer Science B.SC. CBCS

SL NO.	SUBJECT	COURSE CODE	COURSE TITLE	OBJECTIVE	EXPECTED LEARNER OUTCOMES
1.	Computer Science (Generic Elective)	GE-1	COMPUTER FUNDAMENTALS		
		GE-2	COMPUTER NETWORKS AND INTERNET TECHNOLOGIES		
		GE-3	MULTIMEDIA AND APPLICATIONS		
		GE-4	WEB AND E-COMMERCE TECHNOLOGIES		